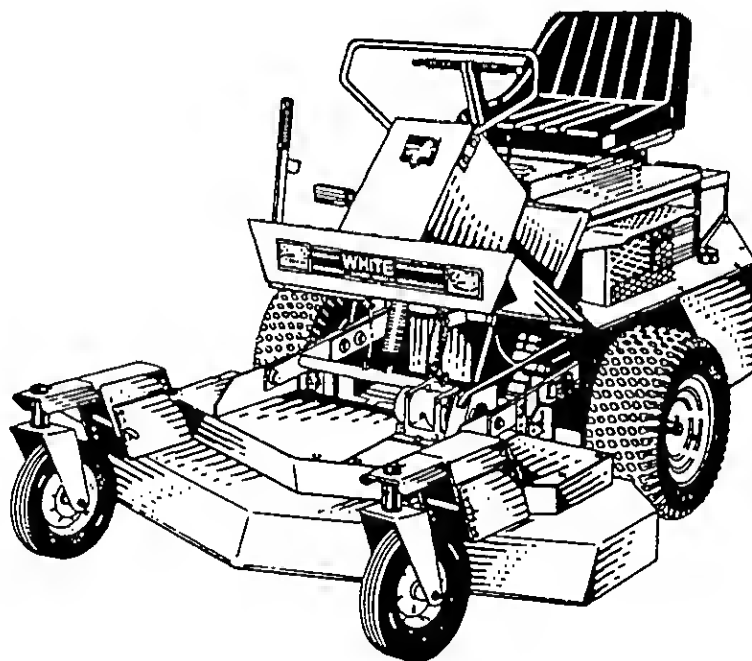


# WHITE



## OUTDOOR PRODUCTS OWNER'S GUIDE

### *TURF BOSS GROUNDSKEEPING TRACTOR*



**FR-1800**

132-013-190

**FR-2000C**

132-026-190

# LIMITED WARRANTY

For two years from the date of original retail purchase, WHITE OUTDOOR PRODUCTS will either repair or replace at its option, free of charge, F. O. B. factory or authorized service firm any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by WHITE OUTDOOR PRODUCTS.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

A battery which proves defective within ninety (90) days will be replaced without charge. After 90 days but within one hundred twenty (120) days from the date of purchase, WHITE OUTDOOR PRODUCTS COMPANY will replace the defective battery for a charge of 1/2 of the current retail price of the battery in effect at the date of return.

Warranty on units used commercially is limited to one (1) year or as rental units thirty (30) days from original purchase.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of WHITE OUTDOOR PRODUCTS.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by WHITE OUTDOOR PRODUCTS.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.



WARNING

This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester muffler is available at your nearest engine authorized service center.

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## INTRODUCTION

Your WHITE OUTDOOR PRODUCTS Operator's Manual will assist you in the operation and servicing of FR Series Mowers. The manual will acquaint you with your machine and outline how you affect the performance and longevity of your WHITE OUTDOOR PRODUCTS Mower.

Please read the manual carefully and thoroughly, paying close attention to all Safety Alert Symbols, Warnings and Cautions (See Page 2) - Safety is always a priority!

A separate manual is provided for the engine. Please note, the engine in these tractors should be serviced by a Briggs & Stratton or Onan Service Center - when ordering parts, identify the engine model, code and type number. These numbers are located on the shrouding of both the Briggs & Stratton and Onan engines.

All parts should be replaced with WHITE OUTDOOR PRODUCTS parts from your WHITE OUTDOOR PRODUCTS dealer.

## MODELS

Model FR-1800 - 18 HP  
131-013-190  
Briggs & Stratton Air Cooled  
2 Cylinder Gas

Model FR-2000C - 20 HP  
131-026-190  
Onan Air Cooled  
2 Cylinder Gas

|          |                     |
|----------|---------------------|
| TRACTOR: | Model Number _____  |
|          | Serial Number _____ |
| DECK:    | Model Number _____  |
|          | Serial Number _____ |
| ENGINE:  | Make _____          |
|          | Model Number _____  |
|          | Code Number _____   |
|          | Type Number _____   |

## Safety Alert Symbol and Notations

The following safety notations are used throughout this manual to call attention to special information or operating procedures. Understand the message in each notation and be alert to unsafe conditions and the possibility of personal injury.

NOTE: A NOTE points out general reference information regarding proper operation and maintenance practices.

### Important

An IMPORTANT statement indicates specific procedures or information that is required to prevent damage to the machine or its attachments.



This safety alert symbol is used to attract your attention! PERSONAL SAFETY IS INVOLVED! When you see this symbol - BECOME ALERT - HEED ITS MESSAGE.



### Caution

A CAUTION identifies safe operating practices or indicates unsafe conditions that could result in personal injury.



### Warning

A WARNING describes a condition where failure to follow the instructions could result in severe personal injury.



### Danger

A DANGER designates a condition where failure to follow instructions or heed warning will most likely result in serious personal injury or death.

NOTE: DO NOT ATTEMPT TO START THE ENGINE UNTIL YOU HAVE READ THE ENGINE MANUAL.



THIS IS A SAFETY ALERT SYMBOL USED TO ALERT YOU TO POSSIBLE DANGER TO YOUR OR SOMEONE ELSE'S PERSONAL SAFETY. WHEN YOU SEE THIS SYMBOL, BE ALERT TO THE ACCOMPANYING MESSAGES IN THIS MANUAL.

## **Caution**

Your WHITE OUTDOOR PRODUCTS Mower Is Equipped With An Ignition InterLock Safety System. This System Is Designed To Protect The Operator And Others In The Immediate Area By Preventing The Engine From Starting When The PTO Switch Is ON Or The Lever Lock Is Not In The Locked Position. This System Should Always Be Operative.

Listed below are a common set of rules you should read and follow, REMEMBER, your safety and the safety of others depends on the operator's awareness and adherence to these basic rules.

1. Remove all debris from area to be mowed. Keep persons and pets away from mowing area. Although area has been supposedly cleared of all debris, small objects may have been overlooked and may be discharged or thrown by mowing parts - causing injury to people, pets, property or to the mower.
2. To start the engine (A) lock steering levers in neutral (B) disengage PTO switch.
3. Never place hands or feet under deck while engine is running.
4. Never fill the fuel tank while the engine is hot. Wipe off any fuel that might have spilled. Replace fuel cap on tank.
5. Only persons thoroughly acquainted with rules of safety operation should be permitted to use the mower. Never allow a small child to operate, or be in the operating area of power equipment.
6. DO NOT attempt to get off or on mower when mower deck is engaged and engine is running. Wait until mower blades stop turning before getting on or off mower. Make sure the PTO is disengaged before parking mower.
7. Keep blades sharp and properly balanced. If your equipment should start vibrating, stop the engine and check for damaged or loose parts. Vibration is generally a warning of trouble.
8. When putting on new blades, make sure they are tight.
9. DO NOT attempt to clean deck housing, or to otherwise clean, adjust or repair machine before stopping mower engine. FOR YOUR OWN SAFETY, remove ignition key and disengage PTO switch.

10. Always keep all shields and guards in place. Mower must never be operated with any shields or guards removed.
11. Never leave machine running unattended. Remove key from ignition switch to prevent children from starting the mower.
12. Never run engine inside a building without proper ventilation.
13. ALWAYS operate the machine with the deck in the lowered position.
14. Always drive slowly over varied terrain to prevent tipping the mower.
15. DO NOT operate the mower at high speed going downhill and DO NOT TURN SHARP CORNERS WHILE GOING DOWNHILL. NOTE: The hydraulic pumps produce braking action when steering levers are moved toward neutral; this procedure is recommended for braking action.
16. DO NOT operate mower on inclines greater than 25%.
17. Always observe traffic laws while driving machine from one location to another.
18. Always stop the engine and inspect the machine after striking a foreign object. If damage is found, repair the machine immediately.
19. Keep all caution and safety decals legible at all times. Replace any that are damaged.

In addition to the above safety procedures for operation of the mower, the following precautions should be observed when using fuel. Its improper use, handling and storage can be dangerous:

ALWAYS USE AN APPROVED CONTAINER. PLACE CONTAINER OUT OF REACH OF CHILDREN.

NEVER ADD FUEL TO A RUNNING OR HOT ENGINE.

FILL TANK OUT OF DOORS AND WIPE UP ANY SPILLED FUEL.

POSITIVELY NO SMOKING.

## DEALER PREPARATION FOR OPERATION

**CUSTOMER NOTE:** Your WHITE OUTDOOR PRODUCTS dealer is expected to complete these preparation steps and review important information, including this manual, with you before or upon delivery of this unit.

The preparation information is included here so that you and your dealer may review it together.

**NOTE:** All reference to "Left", "Right", "Front" and "Rear" are from operator seated on seat.

### SEAT

Remove band from seat, raise seat lid and bolt seat to lid using lockwashers and nuts supplied. Check to see that wires to seat switch are connected.

### BATTERY

Battery is shipped without electrolyte. After removing battery from tractor, fill each cell with electrolyte to level indicator.

PERFORM ALL STEPS outlined in the Machine Check List on page 5.

### IGNITION INTERLOCK SAFETY SYSTEM



Failure of Ignition Interlock Safety System, together with improper operation of unit, could result in severe personal injury.

Check the Interlock Safety System to make sure it is functioning properly. Engine must not start unless steering lever lock is locked and PTO switch is off. Engine must stop if operator leaves the seat when lever lock is unlocked.

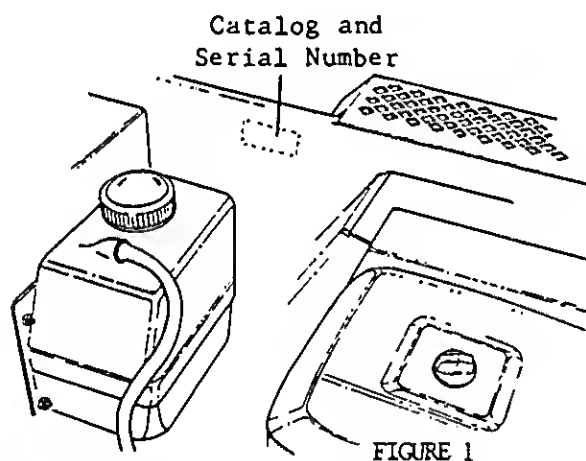
## INSTALL DECK

Refer to Installation of Deck to Tractor Section of operator's manual for instructions, see page 17.

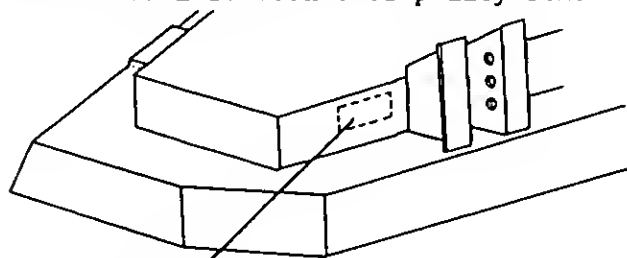
## REGISTRATION

Complete Mower Delivery Report.

- Warranty is registered under catalog and serial number found on the left side of the body under the seat lid.



The deck model and serial number is found on the back left corner of pulley box.



Model and  
Serial Number

FIGURE 2

## DELIVERY

Using the operator's manual, instruct the customer on controls and operation of unit. Emphasize safety and discuss the Safety Precautions.

## Important

Remind the customer to change oil in engine crankcase and engine oil filter after first 5 hours. Adjust deck belts and deck drive belt after 2 hours of operation.

## MACHINE CHECK LIST

The following list should be acknowledged before a new machine is put into service:

1. Check engine oil level (See engine manual for recommendations).
2. Check oil level in hydrostatic system. The oil reservoir on the Regular Models (Plastic Reservoir) should be kept 1/2 full when oil is cold. On Commercial Model (with Metal Reservoir behind gas tank) oil level should be between 1" and 1 1/2" below top of tank when cold.
3. Fill fuel tank with fresh clean gasoline.
4. Check tension on deck drive belt and deck belts. These belts should have a 1/2" deflection on the longest span when 5 pounds of pressure is applied.
5. Check pump drive belt idler to see that it operates freely and applies tension on belt.
6. Check pressure in all tires (See Tire Pressure Chart, Fig. 2A). The tire pressure must be the same in each drive wheel. This also applies to the deck gauge wheels.

| TIRE         | PRESSURE PSI |
|--------------|--------------|
| Drive Wheels | 10 to 14     |
| Tail Wheel   | 10 to 18     |
| Gauge Wheels | 8 to 14      |

FIGURE 2A

## MACHINE OPERATION

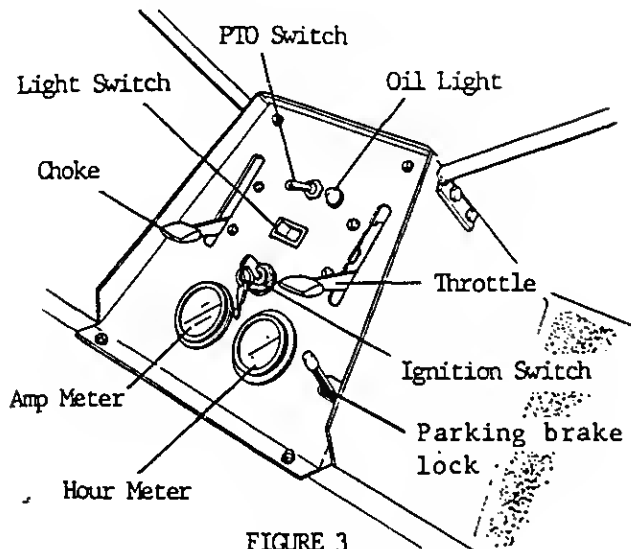


FIGURE 3

## STARTING AND STOPPING THE ENGINE

NOTE: The engine starter will not engage unless the steering levers are LOCKED in neutral and the PTO switch is in the OFF position. This is identified as the IGNITION INTERLOCK SAFETY SYSTEM.

### Warning

Never operate machine with Ignition Interlock Safety System disconnected, bypassed or malfunctioning.

### Warning

Engine exhaust gases contain poisonous carbon monoxide. Avoid inhaling fumes and never run the engine in a closed building or confined area.

1. Move the choke to the CLOSED position. On a warm engine (normal operating temperature) place the choke in the OPEN position.
2. Open throttle midway between SLOW and FAST position.
3. Turn key to START. Return key to ON when engine starts.
4. Gradually return the choke to the OPEN position after the engine starts and warms up.

### Caution

Do not crank the engine continuously for more than 10 seconds at a time. If the engine does not start, allow a 60 second cool-down period between starting attempts. Failure to follow these guidelines can burn out the starter motor.

### Caution

Always start the engine with the park brake ON. This clutches the belt to the hydrostatic pumps to keep the tractor from creeping upon start-up and reduces wear on the starter motor.

## TO STOP THE ENGINE

1. Run the engine at half throttle for a minimum of 15 seconds under no load to cool it down.
2. Turn ignition key to OFF and remove the key.

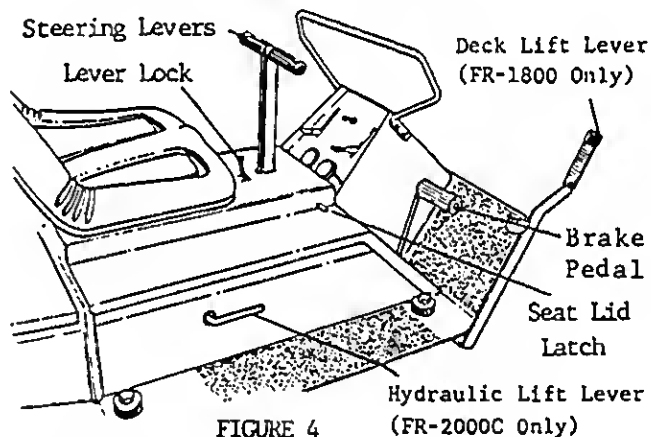


FIGURE 4

## DRIVING

After starting engine, place parking brake in run and unlock lever lock. If the lever lock is unlocked while the parking brake is on, it will kill the engine. Steering levers control forward and reverse movement as well as turning and braking. Each lever controls the direction of the corresponding drive wheel. To turn the machine to the right, move the right lever back and/or left lever forward. To turn the machine to the left, move the left lever back and/or the right lever forward.

### Caution

Any sudden movement of levers will result in sudden braking or opposite direction of travel.



## BRAKING

Forward or reverse movement is slowed or stopped by returning the steering levers toward the neutral position.

## ENGAGING PTO

The PTO switch, at the upper center of the dash panel, activates the electric clutch. To engage, set the engine throttle to 1/3 speed and pull out and up on PTO switch.

### **Warning**

Operator must be in the seat for the PTO to activate. When rotary mower is being used, extreme care must be taken not to direct discharge in the direction of persons or pets.

Again, the PTO will only activate if seated in operator's seat and the deck safety switch is plugged in.

## LIFTING THE ATTACHMENTS

### **Warning**

Never travel at road speeds with attachment in raised position.

## FR-1800

The attachments for the tractor are raised and lowered by a hand lever located at the right front of the tractor. By pulling the lift lever back and down, it can be latched under the body frame to hold the attachment in the raised position for service and to clear obstacles.

An optional electric lift can be installed by which the attachment is raised and lowered by a two-way switch located on the dash. When operating with an electric lift, the lift should be fully extended, or all the way down, to allow the attachment to float.

## FR-2000C

The attachments for the tractor are raised and lowered by a hydraulic valve located on the right side of the operator's seat. Raising the lever to the upmost position retracts the cylinder and raises the

attachment. The next notch down will hold the attachment at a set position. The lowest position will lower the attachment and allow it to float with the terrain.

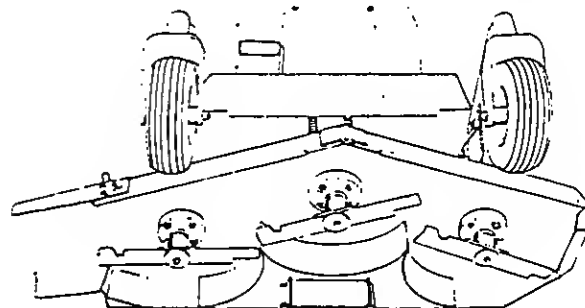


FIGURE 5

## TILTING DECK FOR SERVICE

### **Warning**

Never handle the deck while the tractor engine is running.

1. SHUT THE ENGINE OFF and remove the key.
2. Stand in front of the deck facing tractor. Push on lift lever enough to remove the two deck pins.
3. Push on lift lever to raise deck a little and with the other hand raise the front of the deck into an upright position. Release the lift lever and lower the deck to the ground.
4. Place one of the deck pins in the hole to lock the deck up.
5. To lower the deck, remove deck pin and lower front of the deck to the ground. Push on the lift lever and replace deck pins at desired cutting height.

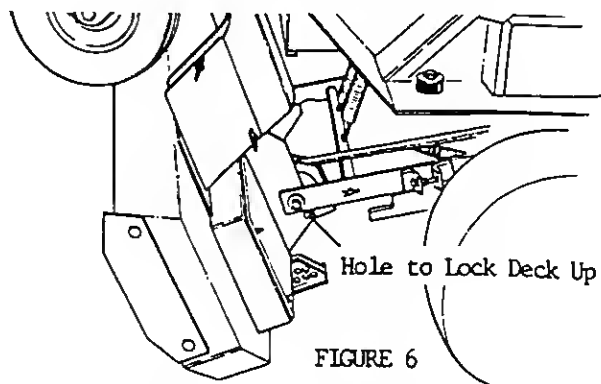


FIGURE 6

## LUBRICATION AND MAINTENANCE

### Warning

When servicing machine, stop engine, remove key and engage lever lock and parking brake.

Routine lubrication and maintenance is the most important step toward low upkeep, long machine life, satisfactory service and a quality mowing.

### QUICK REFERENCE MAINTENANCE SCHEDULE

| REF | SERVICE AT INTERVALS INDICATED          | OAILY<br>PRESTART | OAILY<br>AFTER<br>STOPPING | EVERY    |          |           |           |           | ANNUALLY<br>OR<br>100<br>HR. |
|-----|---|-------------------|----------------------------|----------|----------|-----------|-----------|-----------|------------------------------|
|     |   |                   |                            | 4<br>HR. | 8<br>HR. | 25<br>HR. | 40<br>HR. | 50<br>HR. |                              |
| A   | Verify Ignition Interlock Safety System | X                 |                            |          |          |           |           |           |                              |
| A   | Check Engine Oil Level                  | X                 |                            | X        |          |           |           |           |                              |
| A   | Check Fuel Level                        | X                 |                            | X        |          |           |           |           |                              |
| A   | Check Hydraulic Oil Level               | X                 |                            |          |          |           |           |           |                              |
| A   | Clean Oil Cooler (1)                    | X                 |                            | X        |          |           |           |           |                              |
| A   | Visually Inspect Tractor                | X                 |                            |          |          |           |           |           |                              |
| A   | Visually Inspect Tires                  | X                 |                            |          |          |           |           |           |                              |
| A   | Clean Underside of Deck                 |                   | X                          |          |          |           |           |           |                              |
| A   | Lube Deck Gauge Wheels                  |                   |                            |          | X        |           |           |           |                              |
| A   | Lube Tail Wheels                        |                   |                            |          | X        |           |           |           |                              |
| B   | Clean Air Filter Element (1)            |                   |                            |          |          | X         |           |           |                              |
| A   | Lube Gauge Wheel Fork Tubes             |                   |                            |          |          |           | X         |           |                              |
| A   | Lube Tail Wheel Fork Tube               |                   |                            |          |          |           | X         |           |                              |
| A   | Check Crease in Gearbox                 |                   |                            |          |          |           |           |           | X                            |
| A   | Lube Spindle Housing                    |                   |                            |          | X        |           |           |           |                              |
| A   | Check Battery and Connections           |                   |                            |          |          |           | X         |           |                              |
| C   | Change Engine Oil (2)                   |                   |                            |          |          |           |           | X         |                              |
| C   | Change Engine Oil Filter (2)            |                   |                            |          |          |           |           | X         |                              |
| B   | Clean Air Filter Paper Cartridge (1)    |                   |                            |          |          |           |           |           | X                            |
| A   | Check Tire Pressure With Gauge          |                   |                            |          |          |           |           |           | X                            |
| A   | Torque Wheel Nuts                       |                   |                            |          |          |           |           |           | X                            |

#### NOTES:

- (1) More often under dusty conditions and when mower is equipped with center discharge deck  
 (2) Initial oil and filter change is at 5 hours

#### REFERENCE:

- A - See Owner's Manual  
 B - See Engine Manual  
 C - See Both Owner's and Engine Manuals

FIGURE 7

## IGNITION SAFETY SYSTEM

Check tractor Ignition Interlock Safety System daily, prior to operation. This system is important to the safety of persons in the area. It should be repaired immediately if malfunctioning. To check the system follow these steps:

1. Begin with parking brake engaged, PTO switch off and lever lock engaged.
2. Disengage lever lock and turn the ignition key to start position. The starter motor should not respond.

3. Lock the lever lock and turn PTO switch on and turn ignition key to start position. Starter motor should not respond.

If starter responds to either of these tests, turn off ignition and make corrections immediately. Otherwise, proceed with other preoperative checks.

## SEAT SWITCH

The seat switch should be checked before each operation. The machine should not be operated with an inoperative switch. To check seat switch:

1. Start engine while seated in operator's seat. Unlock the lever lock and raise from the seat - the engine should quit.
2. Return the lever lock to lock position and restart engine. Engage PTO switch and raise from the seat - the deck should disengage.

If engine fails to quit or deck does not disengage, turn off ignition switch and correct immediately.

## BREAK-IN SERVICES

A new engine requires special break-in maintenance services. Read the appropriate section of the owner's manual. Engine oil and filter should be changed after the first 5 hours of operation.

## ENGINE OIL SYSTEM

Check engine oil level at the start of each day and again after 4 hours of operation. Oil must always be between the marks on the dipstick.

Change engine oil after the first 5 hours of operation. Refer to engine manual for oil change intervals after the initial change.

To change oil, park tractor on level surface, remove ignition key, lock the lever lock and apply parking brake. Remove drain plug from bottom of engine. Remove oil filter (which is located in front of engine). Lubricate gasket on new filter with new engine oil and install. Tighten filter by hand only. Replace oil drain plug.

Add new oil through oil port plug. When adding new oil, check level with dipstick (DO NOT OVERFILL). See engine manual for oil capacity, API service class and viscosity.

## Warning

During normal operation oil heats to a level that may cause severe burns. Allow engine to cool before servicing.

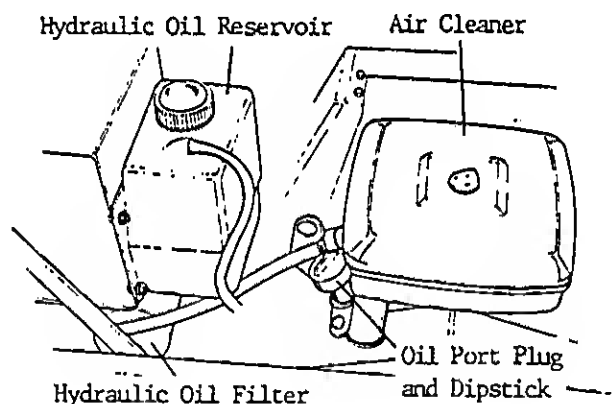


FIGURE 8

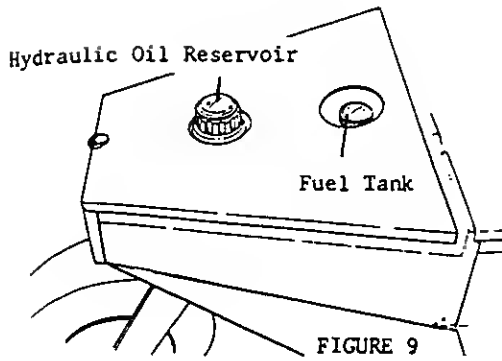
## HYDRAULIC SYSTEM

### Caution

Care must be taken to keep any dirt or moisture from entering the hydraulic system. Minute amounts of either will greatly reduce the life of the components.

The hydraulic system reservoir is located under the seat lid (plastic tank) on Regular Model and under the back cover (metal tank) on the Commercial Model.

Check hydraulic oil level daily. Oil level in plastic tank should be half full, in metal tank 1" to 1 1/2" below top of tank.



## ⚠ Caution

Use only 20W hydraulic fluid (Part No. 999-2006) in the hydraulic system.

NORMALLY no hydraulic filter change should be required during the life of the drive system.

NOTE: Exception to the above is made if the tractor drive performance becomes sluggish in which case it is recommended that the filter be changed. Great care must be taken to insure that ALL PARTICLES that may cause contamination to the system be removed from around filter and housing before removal.

To clean around filter before removal, use a solvent and brush to remove soil and dirt. Then use compressed air to final clean the area.

Only filters supplied from White Outdoor Products should be used as they have been precleaned.

When a leak is detected in the hydraulic system, stop the machine at once and repair the leak. Once repaired, refill hydraulic reservoir.

## ⚠ Caution

On FR-1800, after Serial Number 04-027-012814, the hydraulic oil cooler must be kept clean. Failure to do so will cause the oil to over heat and greatly reduce the life of the hydrostatic pumps.

The hydraulic oil cooler may be cleaned utilizing compressed air (maximum pressure of 100 PSI). More frequent cleaning is required when the mower is equipped with the center discharge deck.

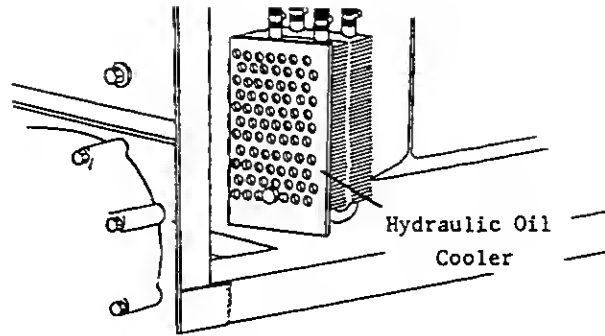


FIGURE 9A

## ⚠ Warning

Hydraulic oil escaping under pressure can penetrate skin. Before applying pressure to hydraulic system, make sure all connections are tight and all hoses and lines are in good condition. To find a leak under pressure, use a piece of cardboard or wood - NEVER use your hands. Lower all attachments, shut engine off and remove key before opening any hydraulic lines. Eye protection should be worn when servicing hydraulic system.

It is important to keep the transmission pump's fins and cooling fans clean at all times. If a cooling fan becomes damaged it should be replaced with a new one.

## LUBRICATION

There are 9 grease zerks on the machine. The deck gauge wheel axles (2 zerks) and tail wheel axle (1 zerk) should be greased every 8 hours. The spindles (3 zerks), gauge wheel fork tubes (2 zerks) and tail wheel fork tube (1 zerk) should be greased every 40 hours.

Use a SAE multi-purpose gun grease on all zerks. Do not use more than one or two pumps from grease gun each time.

### LUBRICATION REFERENCE GUIDE

|   |                           |         |
|---|---------------------------|---------|
| 1 | Gauge Wheel Axle Bearings | 8 Hrs.  |
| 2 | Gauge Wheel Fork Bearings | 40 Hrs. |
| 3 | Spindle Bearings          | 8 Hrs.  |
| 4 | Tail Wheel Fork Bearings  | 40 Hrs. |
| 5 | Tail Wheel Axle Bearings  | 8 Hrs.  |
| 6 | Cross Shaft Bearings      | 40 Hrs. |

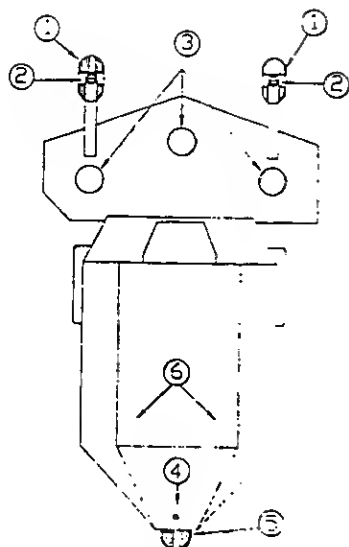


FIGURE 10

## DECK GEARBOX

The gearbox is shipped filled with synthetic grease. It should be kept full at all times. If grease should be needed, use Mobil Mobilith SHC 460 synthetic lubricating grease (Part No. 999-2010) or its equivalent. Use a grease gun to fill the box until grease appears from the vent plug.

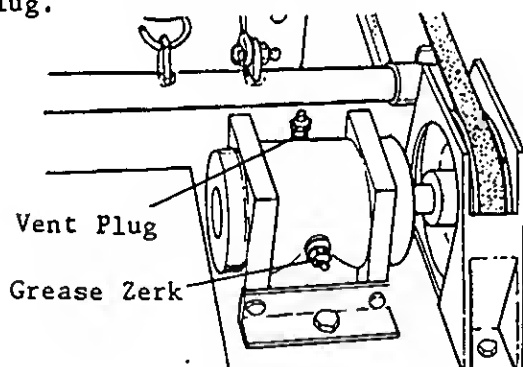


FIGURE 10A

## COOLING SYSTEM

### Warning

Never attempt to clean or make adjustments on the engine while it is running.

Grass, chaff or dirt may clog the rotating screen and the air cooling system. Yearly or every 100 hours remove cooling shrouds and clean cooling fins. Also clean dust, dirt and oil from external surfaces of engine which can cause improper cooling. In extremely dusty or dirty conditions, or when the mower is equipped with the center discharge deck, clean more often.

## Important

Do not operate engine without cooling shrouds installed. Operating the engine without cooling shrouds will cause engine damage due to overheating.

## ENGINE AIR FILTER

Clean and recoil foam precleaner every 25 hours. Every 100 hours the paper cartridge should be removed and cleaned. Perform these procedures more often in dusty conditions. See your engine manual for further instructions on air cleaner care.

## FUEL SYSTEM

The fuel tank is located under the tail cover just back of the operator's seat. Capacity of the fuel tank is 5 gallons. Always keep and use clean, fresh fuel. Regular UNLEADED gasoline with a minimum 87 octane rating is recommended. Leaded gasoline may be used if unleaded is not available.

NOTE: WE DO NOT recommend the use of gasoline which contains alcohol, such as gasohol. However, if gasoline with alcohol is used, it MUST NOT contain more than 10% Ethanol and MUST be removed from engine during storage. DO NOT use gasoline containing Methanol.

### Warning

Observe usual fuel handling precautions. Do not smoke while refueling. Do not fill tank with engine running or while engine is hot. Allow engine to cool before storing machine inside a building. Keep fuel away from open flame or spark. Read and observe all safety precautions in this manual.

An inline fuel filter is located under the seat lid between the engine and fuel tank. If the filter becomes plugged, it should be replaced.

There is a fuel shutoff valve located on the bottom of the fuel tank. This valve should be closed to prevent fuel loss when changing filters, doing other engine work or transporting the machine.

## ELECTRICAL SYSTEM

The electrical system is 12 volt, negative ground. Factory installed battery is a size U1L9, 235 CCA. The battery is located under tail cover of the tractor.

Check battery connections every 40 hours to ensure they are clean and tight. At the same time check for proper electrolyte level.

### Warning

When charging battery, keep away from open flame or sparks. Do not breathe the battery fumes. Avoid skin contact with battery acid. Wear eye protection. If contact does occur, flush area with cold water and consult a physician.

### Warning

When jump starting a low or dead battery, follow these procedures to avoid sparks that could cause battery gases to explode:

1. Attach the first jumper cable from the positive (+) terminal of the good battery to the positive (+) terminal of the dead battery.
2. Attach the second jumper cable from the negative (-) terminal of the good battery to the FRAME OF THE UNIT WITH THE DEAD BATTERY.

A 30 amp fuse, located under the seat lid next to the starter solenoid on the back of the engine compartment, protects the electrical system. If there is an overload on the circuit, the fuse will blow. The cause of the blown fuse should be located and fixed before a new fuse is installed.

## EXTERIOR SURFACE

Exterior surface of tractor should be washed regularly (a minimum of monthly) but more often in corrosive environments. Spray paint is available from your dealer to cover scrapes and chips and to protect against rust.

Mower deck should be cleaned after each cutting for best cutting results. If cleaned before clippings have dried, water pressure from a garden hose can be used to clean underside of deck housing. If clippings have dried, a putty knife may be used to remove accumulation from under the deck.

Every 40 hours remove the deck covers and clean debris from pulley box. Do not operate machine without covers in place. To tilt the deck for cleaning, see Machine Operation Section, TILTING DECK FOR SERVICE.

## TIRES AND WHEELS

Visually inspect tires daily. Check tire pressure with gauge every 100 hours or whenever tires appear low. Tire pressure in both drive tires should be equal and set at 10 to 14 PSI. Tail wheel tire pressure should be 10 to 18 PSI. The deck gauge wheel tire pressure may vary depending on ground conditions - a minimum of 8 PSI to a maximum of 14 PSI may be used. Always keep pressure equal in gauge wheels to maintain even cutting.

## STEERING CABLE ADJUSTMENT

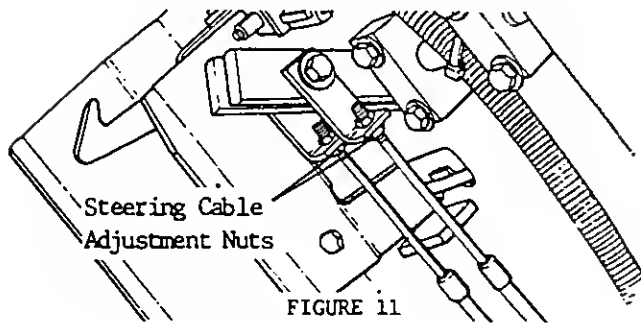
Tractor has been preadjusted at the factory so that it will not creep forward or backward when engine is running and lever lock engaged. However, if tractor should begin to creep, the situation may be corrected as follows:

### Warning

Do not attempt to adjust steering cables until you have read this entire section. Stop engine while placing the tractor on blocks.

1. Block up tractor so that both drive wheels do not touch ground and are free to move. Block tail wheel and gauge wheels so that tractor will not fall from blocks.
2. Run engine and move steering levers back and forth.
3. Lock steering levers in neutral.

4. Drive wheels should not be turning. If they are, raise seat lid and adjust steering cable by loosening nuts on end of cable.



5. Adjust cable so drive wheels are not turning.
6. Lower seat lid and wiggle levers in lock position. If drive wheels do not turn, proceed with step 7. If wheels turn, repeat steps 4 and 5.
7. Shut the engine off. Unlock the steering levers and place the levers in the full forward position. The levers must rest against the front edge of the notch in the seat lid (see Figure 11A). If levers do rest against the front edge of the notch, proceed to Step 9, if not, perform Step 8.

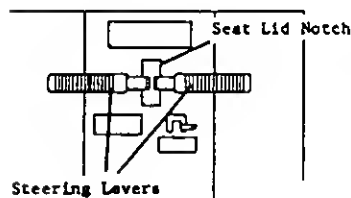


FIGURE 11A

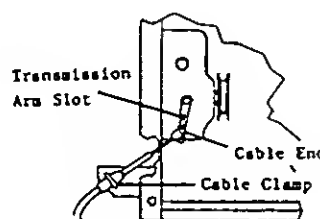


FIGURE 11B

8. If the steering levers will not rest against the front edge of the notch in the seat lid, the cables must be repositioned to prevent cable breakage. To correct, loosen the cable clamp at the base bracket (see Figure 11B) and pull the cable away from the transmission arm as far as possible and retighten the clamp. If the steering lever still will not bottom out in the notch, the

cable clamp holes will need to be elongated. Once the cables are set where they do not bottom out, repeat Steps 4 through 5 to reset neutral.

9. Unblock the machine and test drive. The machine should drive in a straight line with the steering levers held even with each other. If it does, adjustments have been completed. If the machine veers to one direction, proceed to Step 10.
10. To make the machine drive in a straight line, loosen the bolt on the cable end at the transmission arm on the side that the tractor veers toward. Slide the cable end forward in arm slot 1/8 to 1/4 inch and retighten bolt (see Figure 11B). Test drive machine again to check if further adjustment is needed. Once the machine is driving straight, you will need to repeat Steps 4 through 5 to reset neutral.
11. Raise seat lid and make sure cable nuts are tight. Adjustment is complete.

NOTE: If there is not enough adjustment to cables at the steering levers, adjustment can also be made on the steering cable at the transmission arm.

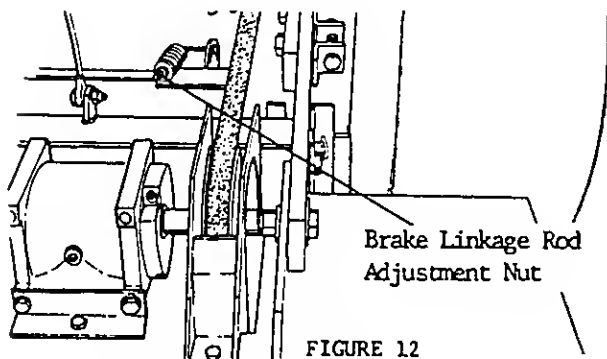
## BRAKE ADJUSTMENT

Occasionally test the brake for proper adjustment by backing the machine onto a 25° incline. With engine running, engage lever lock and apply parking brake. The tractor should remain in position. If not, follow these steps to adjust brake:

FR-1800 (Prior to Serial Number 41-027-012814)

1. Block up side of tractor that does not hold.
2. Shorten brake linkage rod by turning locknut clockwise. (See Fig. 12).
3. Apply parking brake and try to rotate wheel forward by hand.

4. If you can rotate wheel forward by hand, repeat steps 2 and 3. If not, unblock tractor and repeat on other side.



FR-1800 (After Serial Number 41-027-012814)

1. Block up side of tractor that does not hold.
2. Apply parking brake.
3. Shorten brake linkage rod by turning locknut clockwise (see Fig. 12A) until wheel can not be turned by hand.
4. Repeat above steps on the other side if needed.

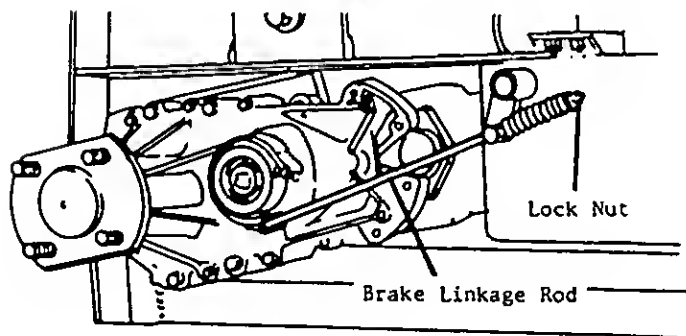


FIGURE 12A

FR-2000C

1. Block up side of tractor that does not hold.
2. Adjust brake by loosening nuts on brake cable and shortening the length of the cable.
3. Apply parking brake and try to rotate wheel forward by hand.
4. If you can rotate wheel forward by hand, repeat steps 2 and 3.

If not, unblock tractor and repeat on other side.

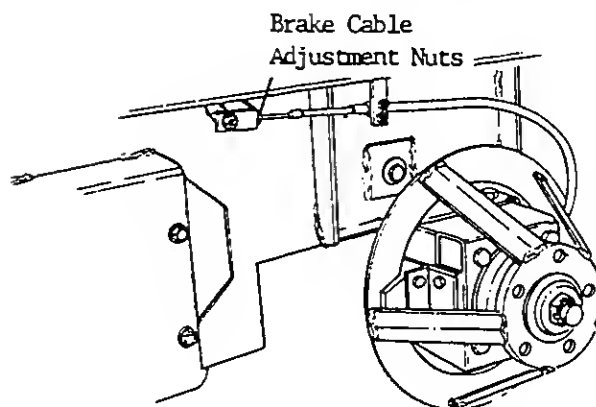


FIGURE 13

The incline test should be repeated after adjustments have been made on the parking brake.

## ELECTRIC CLUTCH ADJUSTMENT

It may become necessary to adjust the electric clutch. One sign that the clutch clearance is too wide is when the clutch will engage when the tractor is cool, but will not when it is warm.

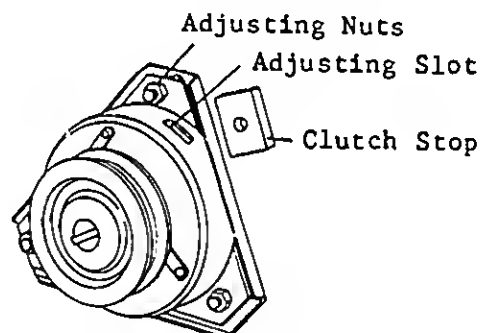


FIGURE 13A

To adjust clutch, follow these steps:

1. Unplug electrical connector to clutch.
2. Remove clutch stop so the clutch body can be rotated.
3. Place a .012 feeler gauge in the oblong slot by the adjusting bolt. Adjust so that the gauge starts to drag. Adjust all three bolts the same.
4. Once adjustments are made, all three points should be checked again because adjusting one may change the others.



5. Reinstall the clutch stop and plug in the electrical connector.

## DECK HEIGHT ADJUSTMENT

Cutting height of all decks on all air cooled models is 1" to 4". Place mower on level surface. Turn ignition key off and remove key.

### Warning

Stop the engine. Make sure the PTO switch is off. Engage lever lock and remove ignition key before getting off machine.

Raise deck and lock in the raised position. Remove the gauge wheel wing bolts and move gauge wheels up or down to desired height. Replace wing bolts and tighten handle nuts. Remove rear deck pins and adjust back of deck. For best cutting results, in most conditions, the back of the deck should be 1/8" to 1/4" higher than the front.

Lower the deck to the ground and check cutting height.

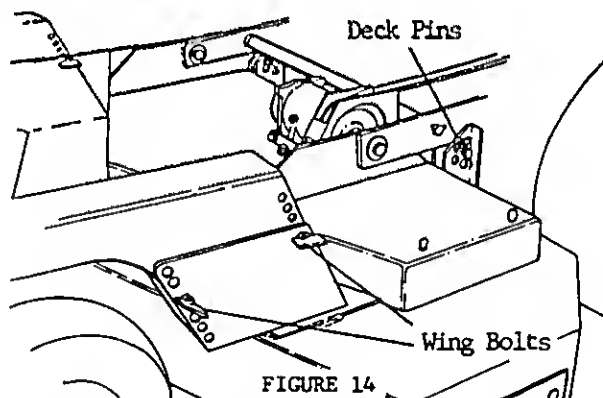


FIGURE 14

## BLADE CARE

For best results, cutting blades must be kept sharp.

### Danger

Never work with blades while engine is running or the PTO switch is on. Engage lever lock and remove ignition key.

To service blades, tilt and lock the deck up to remove blades. Do not sharpen blades while on the deck. Blades may be sharpened on a grinder or by filing. When grinding, care should be taken to maintain blade balance. A balancer should be used

to check blade balance before reinstallation on mower. Unbalanced or bent blades will cause excessive vibration and decrease the life of the deck parts.

Remount the blades making sure the convex side of spring washer is away from blade.

### Warning

Do not use any form of heat to straighten a bent blade. Do not weld a cracked or broken blade. Replace it.

## BELT ADJUSTMENT

### Warning

Never check or adjust any belts with engine running or the PTO switch on.

NOTE: DO NOT over tighten any belt. A belt that is too tight will run hotter, create unnecessary side pressure on bearings and cause premature failure of both the belt and bearings.

## DECK DRIVE BELT

Follow these steps to adjust deck belts:

1. Loosen the two deck arm retaining bolts on both arms.
2. Turn adjusting bolt counter-clockwise to tighten belt. BOTH ARMS MUST BE KEPT AT THE SAME LENGTH. Deflection from center line should be 1/2" with 5 lbs. of pull on deck drive belt.
3. Hold deck arms so that they are straight while retightening the deck retainer bolts.

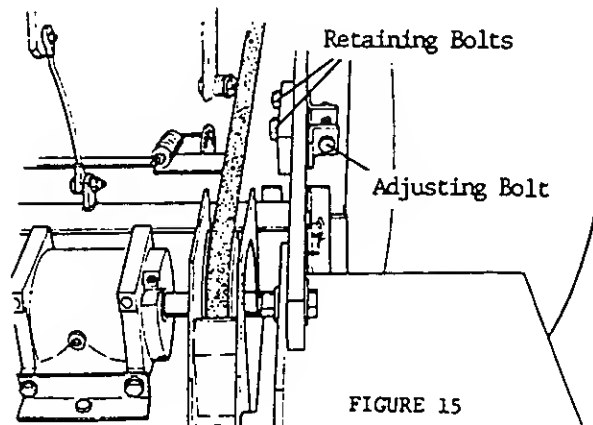


FIGURE 15

### To Replace Deck Drive Belt:

1. Loosen deck arm retainer bolts on left-hand arm. Turn adjusting bolt clockwise to loosen deck drive belt.
2. Remove belt guard from gearbox mount.
3. Remove cross bar pin from left-hand arm.

## Caution

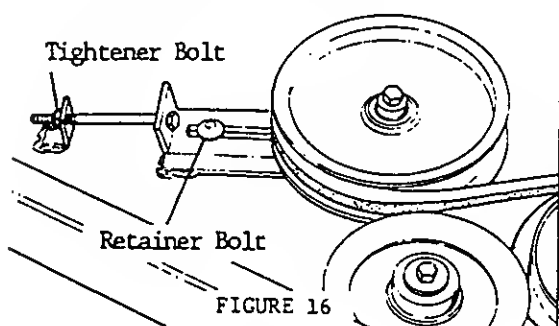
Care must be taken when removing cross bar pin as the deck springs will cause the cross bar to fly up when pin is removed.

4. Remove belt and install new belt.
5. Reverse steps 1 through 3.
6. Adjust tension on belt (See instructions above). Tension on new belts should be checked after 2 hours of operation.

## DECK BELTS

Care should be taken to keep tension equal on both deck belts on the 42" deck. Follow these steps to adjust deck belts:

1. Remove deck covers.
2. Loosen nut on belt tightener retainer bolt.
3. Adjust tightener bolt to obtain proper tension on belt. Deflection on longest span of belt should be 1/2" to 5/8" with 5 lbs. of pull on deck belts.
4. Retighten retainer bolt and replace covers.



### To Replace Deck Belts:

1. Loosen deck drive belt (See Deck Drive Belt Section).
2. Remove deck covers.
3. Loosen belt tightener retainer bolt and tightener adjustment bolt.
4. Unbolt gearbox mount from deck and remove belts from under gearbox pulley.
5. Remove old belts from spindle pulleys.
6. Replace with WHITE OUTDOOR PRODUCTS replacement belts.
7. Place belts in right grooves on the gearbox pulley and rebolt gearbox mount.
8. Adjust belts (See instructions above). Tension on new belts should be checked after 2 hours of operation.
9. Replace deck covers.
10. Adjust deck drive belt (See Deck Drive Belt Section).

## PUMP DRIVE BELT

The pump drive belt is kept tight by a spring loaded idler. No adjusting is necessary, but the idler should be checked periodically to see that it slides properly.

### To Replace Pump Drive Belt:

1. Remove belt retainer from engine pulley.
2. Remove belt retainer from pump pulley.
3. Remove 1 1/16" spacer from between pump fan and pump cross shaft.
4. Apply parking brake and lock.
5. Remove belt from engine pulley and then from pump pulley and fan.

6. Install new belt over pump pulley, then engine pulley and reverse steps above.

## STORAGE

### End of Season Machine Care:

When storing tractor at end of season, the following steps should be taken to insure readiness for the next mowing season:

1. Remove all grass, dirt and trash from tractor and deck. Wash both the tractor and deck, including the underside of deck.
2. Check thoroughly for any worn or damaged parts that need replacing - order them from your dealer.
3. Thoroughly lubricate machine according to lubrication instructions.
4. Lightly oil the underside of deck to prevent rusting.
5. Drain fuel tank and run engine to remove all gas from the carburetor.
6. Perform separate engine preparations as outlined in engine owner's manual.
7. Protect battery from freezing temperatures. Occasionally recharging battery during storage will extend battery life.
8. Store tractor in a dry place away from sparks or flame.

## MOVING TRACTOR WITH ENGINE INOPERATIVE

FR-1800 (Before Serial Number 41-027-012814)

Model 7 Eaton pumps are equipped with a dump valve. On the right-hand transmission it is located on the back side of the pump. The left-hand transmission's valve is located on the front side of the pump.

To deactivate the pumps, push the plunger in and retain by placing the bail over the end of the plunger.

FR-1800 (After Serial Number 41-027-012814)

Sundstrand pumps have a dump valve located on the front of the pump. It is activated by a lever located at lower front of the base (see Fig. 17). To engage the dump valves, push the dump valve lever past the lever stop and push the lever down. To reactivate the pumps, push the dump valve lever past the lever stop and raise the lever so that it rests on the top of the lever stop.

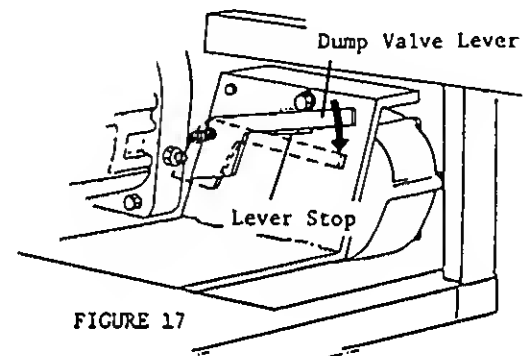


FIGURE 17

## INSTALLATION OF 42", 52" AND 62" DECKS

The following steps are suggested for installation of the deck:

1. Remove deck from the packing crate and place on level surface in front of tractor.
2. Remove the two 1/2" bolts and bushings from the deck mounts. Remove 1/2" deck pins from deck adjustment holes in back of deck.
3. Remove belt guard from deck gearbox pulley.
4. Push both arms down at the same time to align holes in arms with the holes in the deck mounts. Once arms are down, one arm may be released while you place the bolt and bushing in the first arm. Push the other arm back down and install bolt and bushing.

NOTE: If machine is equipped with an electric lift, it must be run to it's lowest position before you can attach arms to the deck.

NOTE: If machine is equipped with a hydraulic lift, lower arms by starting tractor, placing control valve in the float position and pushing down on lift arms.

5. Place deck drive belt over the gearbox pulley and replace belt guard.
6. Raise deck lift arms enough to install deck pins at desired cutting height.
7. Raise the deck with lift arms and lock in the raised position. Install the front gauge wheels and mounts at desired cutting height.
8. Lower deck to ground and adjust deck drive belt (See Belt Adjustment Section).
9. Install Fas-tatch foot guard and plug the deck safety wires into the deck safety switch.
10. Check blade bolts to be sure they are tight. Also remove pulley box covers and check the deck belt tension.

NOTE: Tail Weight Kit for 62" Deck

62" decks are shipped with a 39 lb. weight kit. The weights are to be added to the 45 lb. tail weight shipped with the tractor.

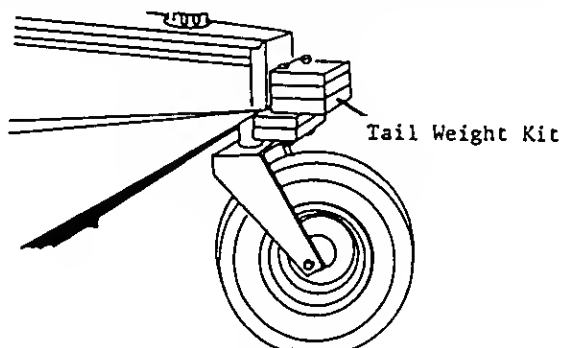


FIGURE 18

1. After installing the tail weight to the tractor, bolt the 3

individual weights to the tail weight with bolts supplied.

## Warning

When running the deck be sure that the area is clear of persons and pets. Only operate the deck while sitting in the operator's seat.

## DUAL TAIL WHEEL KIT

NOTE: If machine is equipped with a tail weight, it must be removed to mount the dual tail wheels.

1. Place jack under back of tractor base and raise tail wheel high enough to remove fork from tail wheel fork tube.
2. Remove 1" set collar from top of tail wheel fork shaft. Filing the burr left by the setscrew from the fork shaft will ease the fork removal. Drive the two bearings from the tail wheel fork tube.
3. Install dual tail wheel mount placing two 5/16" x 3/4" bolts through the back plate of body and dual tail wheel mount. Place tube block into tail wheel fork tube. Run 1/2" bolt down through tube block and dual tail wheel mount. Tighten all bolts to mount.
4. Place dual tail wheel axle into mount with long end of tube to front. Install 1" pivot axle and lock with setscrew.
5. Install tail wheel forks and tail wheels. Lock setscrews.
6. Lower machine to ground and check to see if tractor is level from front to back. If not, adjust collars up or down on tail wheel forks to level tractor.

## TRACTOR TROUBLE SHOOTING GUIDE

| SYMPTOMS   | PROBABLE CAUSES                                   | SUGGESTED REMEDIES   |
|--|---|--|
| Starter Does Not Crank   | Ignition Interlock<br>Safety System not Engaged   | Engage System  |
|  | PTO Switch in ON<br>Position                      | Put Switch in OFF<br>Position                              |
|  | Weak or Dead Battery                              | Recharge or Replace<br>Battery                             |
|  | Fuse Blown  | Replace Fuse   |
|  | For Additional Causes                             | See Engine Manual  |
| Engine Cranks But Does Not<br>Start  | No Gas or Line Plugged                            | Fill Tank or Replace<br>Line                               |
|  | No Fire at Spark Plug                             | Clean or Replace Spark<br>Plug                             |
|  |   | See Engine Manual or<br>Dealer                             |
|  | Numerous Other Causes                             | See Engine Manual or<br>Dealer                             |
| Engine Runs with Loss of<br>Power or Excessive Black<br>Exhaust                | Restriction in Air<br>Cleaner                     | Service Air Cleaner  |
|  | Poor Compression or<br>Timing                     | See Engine Manual or<br>Dealer                             |
| Tractor Jerky When Starting<br>or<br>Tractor Operates in One<br>Direction Only | Steering Cables Need<br>Adjustment                | Adjust Cables  |
|  | Pump or Wheel Motor<br>Faulty                     | See Your Dealer  |
|  | Oil has been Contamina-<br>ted with Water or Dirt | Drain Oil From System<br>and Replace or See Your<br>Dealer |
| Hydraulic System Operating<br>Hot  | Damaged or Broken Fan                             | Replace Fan  |
|  | Cooling Fins Plugged                              | Clean Cooling Fins   |
|  | Hydraulic Pump Faulty                             | See Your Dealer  |
| Tractor Creeps When Steering<br>Levers are in Neutral                          | Steering Cables Out of<br>Adjustment              | Adjust Steering Cables                                     |
| Tractor Creeps or Veers in<br>One Direction                                    | Steering Cables Out of<br>Adjustment              | Adjust Steering Cables                                     |
|  | Wheel Motor Faulty                                | See Your Dealer  |
|  | Hydraulic Pump Faulty                             | See Your Dealer  |

## TRACTOR TROUBLESHOOTING GUIDE (Cont.)

| SYMPTOMS   | PROBABLE CAUSES                               | SUGGESTED REMEDIES                               |
|--|---|--|
| Tractor Creeps With Parking Brake On                             | Brake Out of Adjustment                       | Adjust Parking Brake                             |
| Engine Overheating   | Intake Screen Clogged                         | Clean Screen                                     |
|  | Cooling Fins Clogged                          | See Engine Manual for Cleaning                   |
| Engine Oil Pressure Low  | Low Oil Level                                 | Add Oil  |
|  | Oil Sending Unit Faulty                       | See Your Dealer                                  |
|  | Oil Diluted or Grade Too Light                | Change Oil and Check for Source of Contamination |
| Amp Meter Shows Discharge  | Wiring Defective                              | See Your Dealer                                  |
|  | Alternator Defective                          | See Your Dealer                                  |
| High Oil Consumption<br>Engine Knocks and<br>Other Engine Noises | Numerous Causes                               | See Engine Manual                                |
| Electric Clutch Will Not Engage                                  | Deck Safety Wires Not Plugged In              | Plug Wires In                                    |
|  | Loose or Faulty Wiring                        | Check Wiring                                     |
|  | Seat Switch Faulty                            | Change Seat Switch                               |
|  | Clutch Out of Adjustment                      | Adjust Clutch                                    |
| Grass Cut Uneven   | Deck Height Adjustment Not Even on Both Sides | Adjust Height                                    |
|  | Tire Pressure Uneven                          | Check Tire Pressure                              |
|  | Blade Bent                                    | Replace Blade                                    |

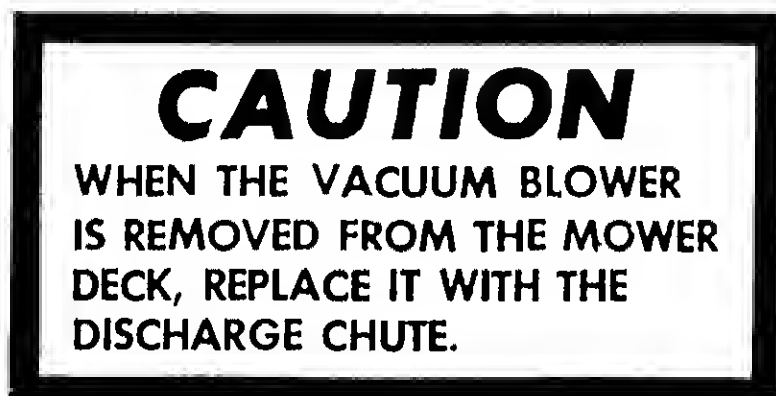
These decals have been placed on the deck to instruct the operator and to warn of safety hazards. It is very important that they be in place and visible at all times. Replace damaged or missing decals immediately! Order by the part numbers shown below.



900-5542



900-5540



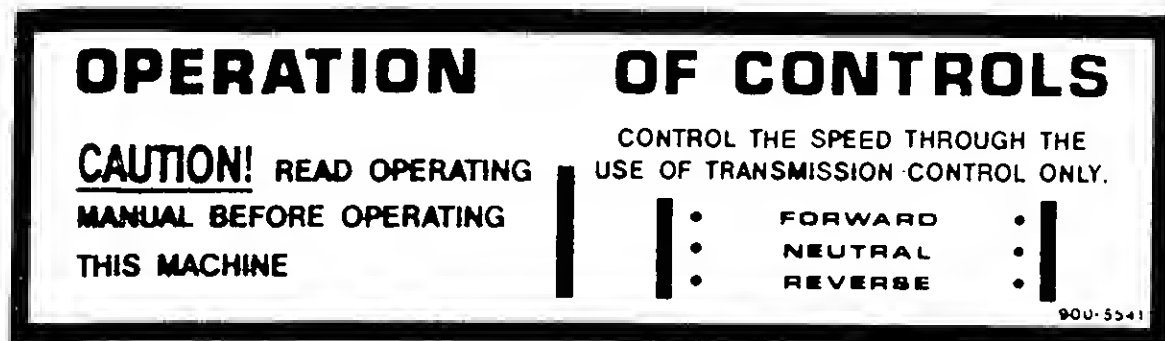
900-5539



900-5549

## TRACTOR DECALS

These decals have been placed on the tractor to instruct the operator and to warn of safety hazards. It is very important that they be in place and visible at all times. Replace damaged or missing decals immediately! Order by the part numbers shown below.



900-5541



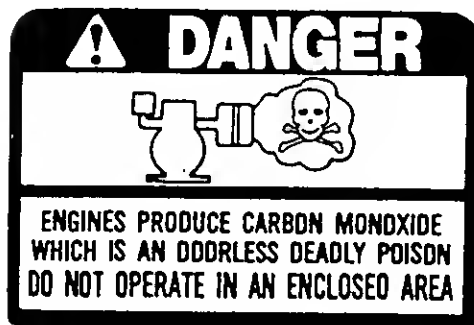
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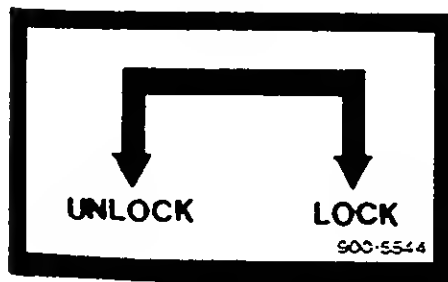
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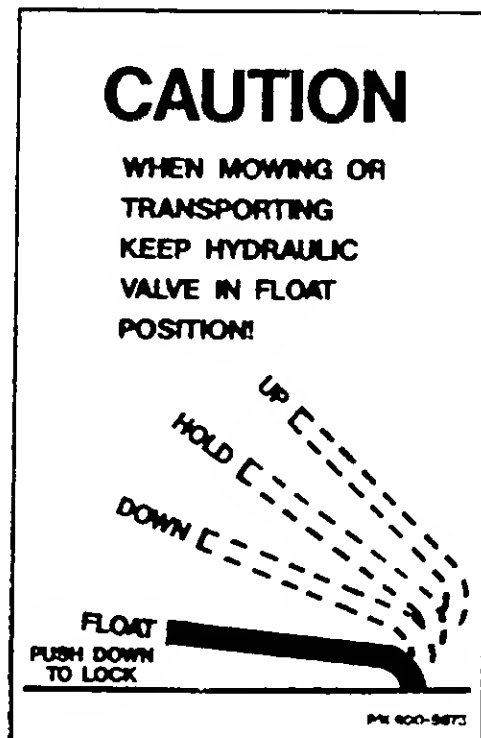
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900-5723



900-5544



900-5673



900-9000



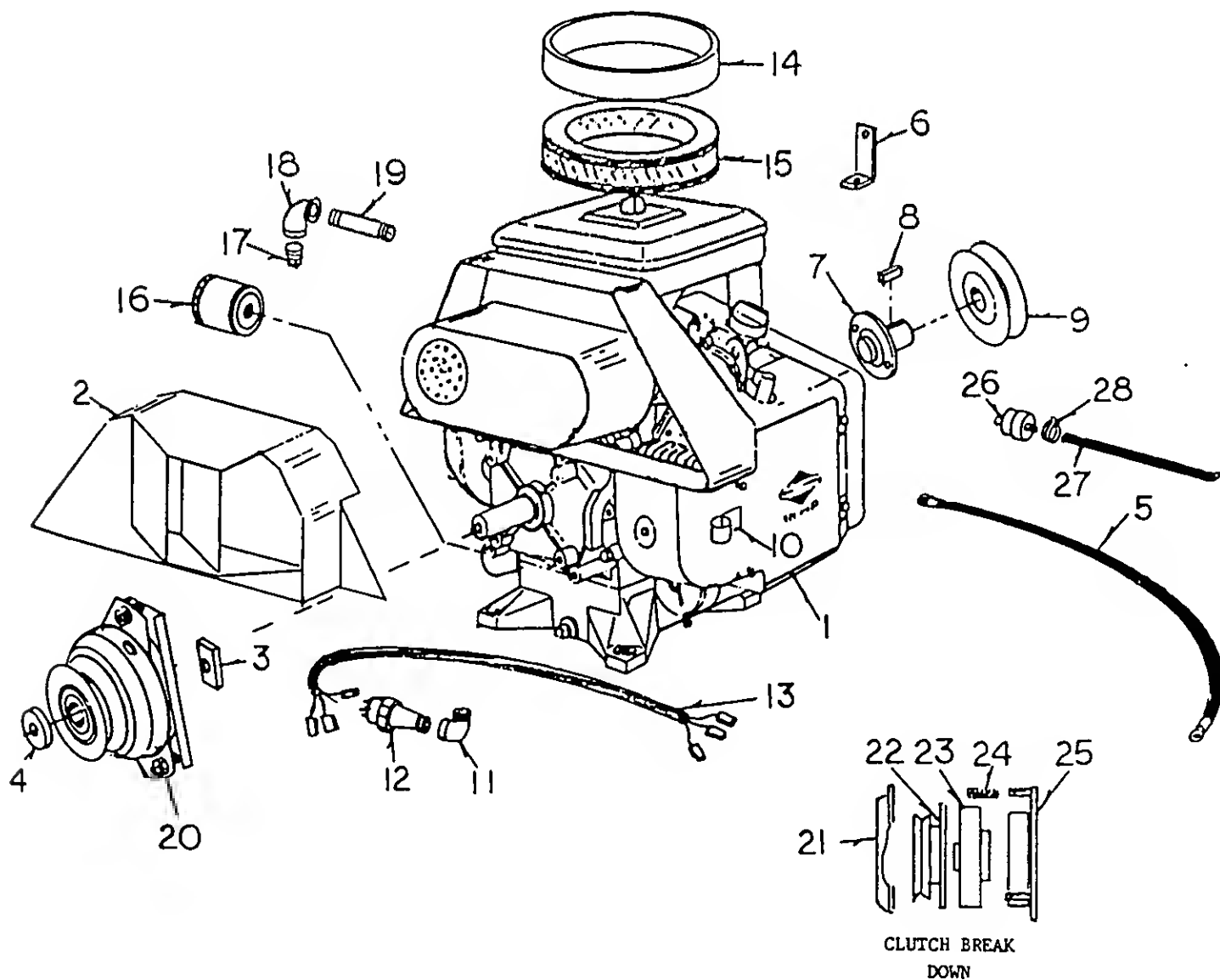
## SPECIFICATIONS

| Tractor Model              | FR1800<br>Before Serial<br>No. 04-027-012814   | FR1800<br>After Serial<br>No. 04-027-012813 | FR2000C                                |
|----------------------------|--|---|--|
| Engine Make                | Briggs & Stratton  |   | Kohler                                 |
| Type, 4 Cycle              | 2 Cyl Gas  |   |  |
| Horsepower                 | 18   | 18  | 20                                     |
| Displacement               | 42.8 Cu. In.<br>694 cc   |   | 47 Cu. In.<br>770 cc                   |
| Maximum RPM                | 3450   |   |  |
| Starting System            | 12 Volt Key and Solenoid   |   |  |
| Fuel Tank Capacity         | 5 Gallon   |   |  |
| Battery                    | 12 Volt 235 CCA Size U1 L9   |   |  |
| Transmission               | Eaton 720  | Sundstrand BDU-10L                          | Eaton 1120                             |
| Final Drive                | Eaton 730  | Agri-Fab 2T                                 | Eaton 2000                             |
| Steering                   | Hand Lever Control Individual Wheel  |   |  |
| Brake                      | Dynamic Braking Through Drive  |   |  |
| Parking Brake              | Disk   | Band  | Disk                                   |
| Clutch                     | Electric   |   |  |
| Attachment Drive           | 1 - B Belt   |   | 2 - A Belt                             |
| MPH Forward & Reverse      | 0-7 MPH  |   | 0-7.5 MPH                              |
| Turning Radius             | Zero   |   |  |
| Tire Size, Drive           | 18 x 9.50-8<br>42" Deck 18 x 6.50-8  |   | 20 x 10.00-10<br>42" Deck 20 x 8.00-10 |
| Tire Size, Tail            | 16 x 6.50-8  |   |  |
| Seat                       | Vinyl Adjustable with Optional Arm Rests   |   |  |
| Wheel Base                 | 42"  |   | 44"                                    |
| Height, Tractor            | 45"  |   | 46"                                    |
| Width, Tractor             | 49"  | 51"   | 50"                                    |
| Length, Tractor            | 57"  |   |  |
| Weight, Tractor (Shipping) | 660 Lbs.   | 655 Lbs.                                    | 876 Lbs.                               |
| Available Deck Widths      | 42", 52", 62"  |   |  |
| Standard Features          | Manual Deck Lift<br>Optional Electric  |   | Hydraulic Deck Lift                    |
|                            | Tilt Back Deck<br>Interlock Safety System<br>Hour and Amp Meter<br>Dual Headlights<br>45 lb. Rear Frame Weight |   |  |

## BRIGGS &amp; STRATTON ENGINE PARTS

| Item | Order No. | Description                     | Qty. |
|------|-----------|---------------------------------|------|
| 1    |           | Briggs & Stratton Twin 18 HP    | 1    |
| 2    | 111-0001  | Air Duct                        | 1    |
| 3    | 113-0010  | Clutch Stop                     | 2    |
| 4    | 900-5575  | Clutch Retainer Washer          | 1    |
| 5    | 900-2010  | Starter Cable                   | 1    |
| 6    | 111-0034  | Wire Standoff                   | 2    |
| 7    | 100-0013  | Stub Shaft                      | 1    |
| 8    | 100-0014  | Key Stock, 1/4"                 | 1    |
| 9    | 900-2503  | Pulley                          | 1    |
| 10   | 100-0021  | Starter Cable Retainer          | 1    |
| 11   | 900-5020  | Street Elbow, 1/8"              | 1    |
| 12   | 900-5017  | Oil Sending Unit                | 1    |
| 13   | 900-2067  | Wire Harness (Oil Sending Unit) | 1    |
| 14   | 900-5008  | Pre Cleaner                     | 1    |

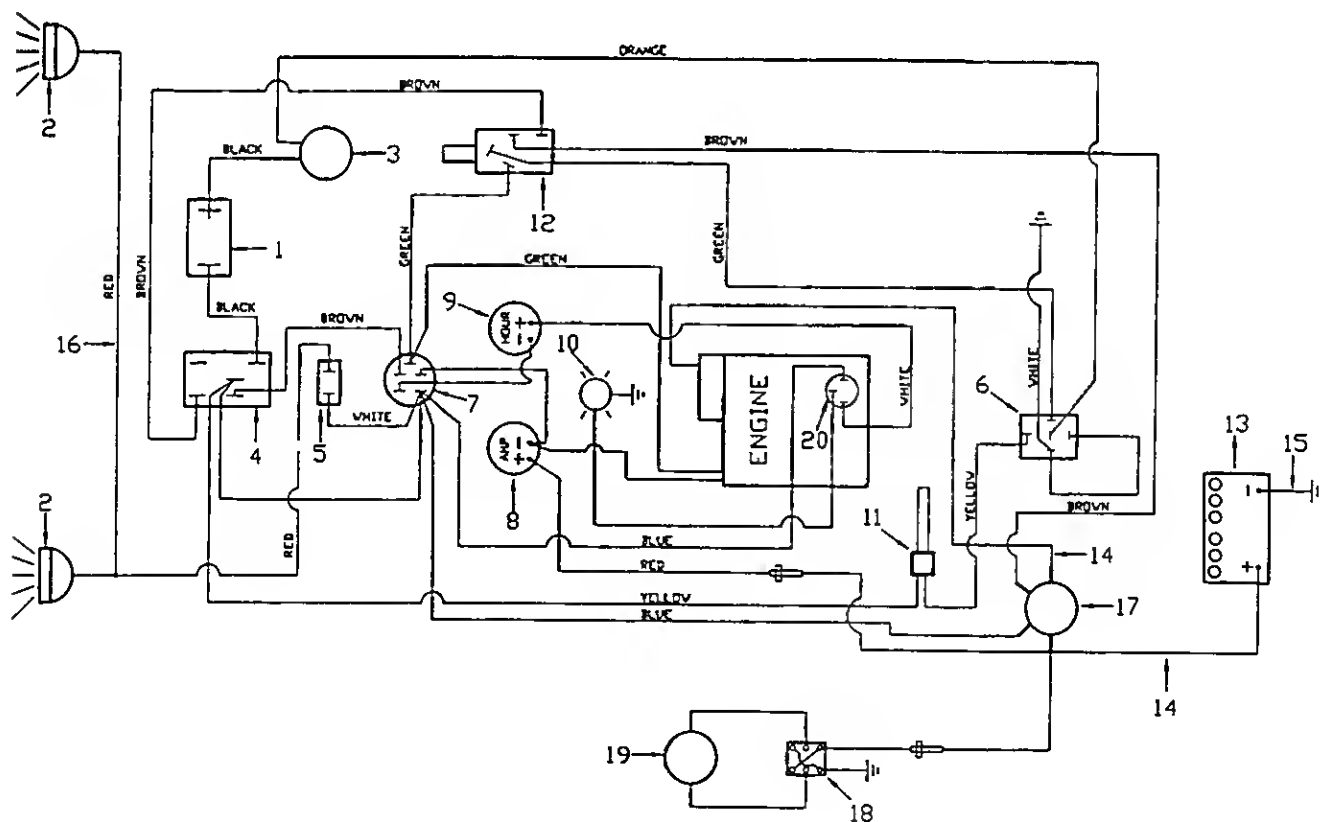
| Item | Order No. | Description              | Qty. |
|------|-----------|--------------------------|------|
| 15   | 900-5005  | Air Cleaner Cartridge    | 1    |
| 16   | 900-5022  | Oil Filter               | 1    |
| 17   | 900-8024  | Plug, 3/8"               | 1    |
| 18   | 900-5720  | Elbow, 3/8"              | 1    |
| 19   | 900-5721  | Nipple, 3/8"             | 1    |
| 20   | 900-5581  | Clutch (Complete)        | 1    |
| 21   | 900-5582  | Clutch Brake             | 1    |
| 22   | 900-5583  | Clutch Armature          | 1    |
| 23   | 900-5584  | Clutch Rotor             | 1    |
| 24   | 900-5586  | Spring & Nut Set (3 Ea.) | 1    |
| 25   | 900-5585  | Clutch Coil              | 1    |
| 26   | 900-5514  | Fuel Filter              | 1    |
| 27   | 900-5515  | Fuel Line                | 1    |
| 28   | 900-5525  | Fuel Line Clamp          | 4    |



# WIRING DIAGRAM

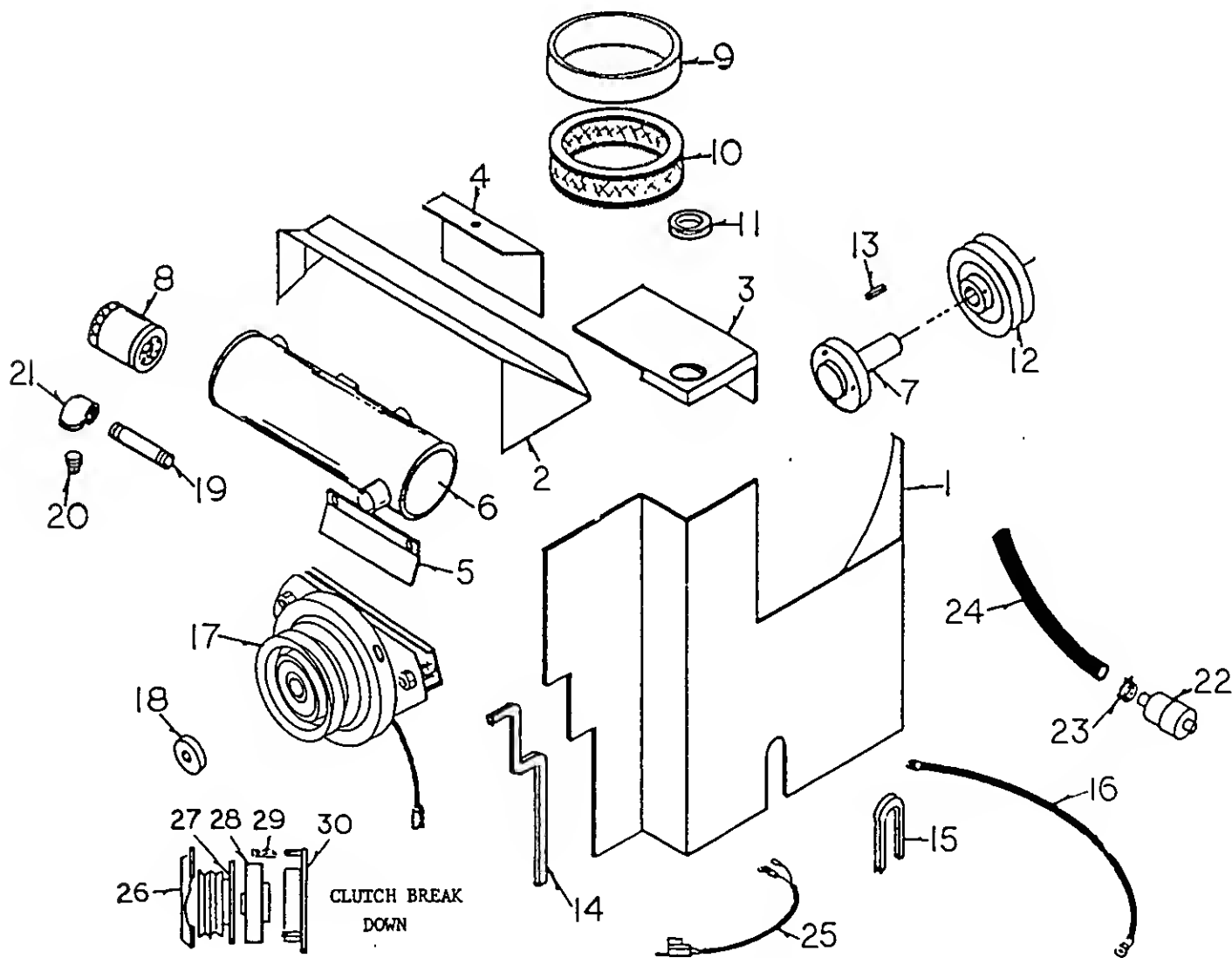
(Briggs & Stratton Engine)

| Item | Order No. | Description              | Qty. | Item | Order No. | Description                 | Qty. |
|------|-----------|--------------------------|------|------|-----------|-----------------------------|------|
| 1    | 900-2044  | 10 Amp Circuit Breaker   | 1    | 9    | 900-2023  | Hour Meter                  | 1    |
| 2    | 900-2014  | Headlight Assembly       | 2    | 10   | 900-2041  | Oil Light                   | 1    |
|      | 900-2024  | Lens                     | -    | 11   | 900-2001  | Seat Switch                 | 1    |
|      | 900-2025  | Bulb                     | -    | 12   | 900-2029  | Safety Switch               | 1    |
|      | 900-2060  | Lamp                     | -    | 13   | 900-2060  | Battery                     | 1    |
|      | 900-2068  | Headlight Gasket         | -    | 14   | 900-2010  | Starter Wire                | 2    |
| 3    | 900-5581  | Electric Clutch Assembly | 1    | 15   | 900-2009  | Ground Wire                 | 1    |
| 4    | 900-2028  | PTO Clutch Switch        | 1    | 16   | 900-2032  | Light to Switch Wire        | 1    |
| 5    | 900-2027  | Light Switch             | 1    | 17   | 900-2005  | Solenoid                    | 1    |
| 6    | 900-2037  | Relay                    | 1    | 18   | 900-2020  | 3 Position Deck Lift Switch | -    |
| 7    | 900-2003  | Ignition Switch          | 1    | 19   | 900-2033  | Electric Lift Actuator      | -    |
| 8    | 900-2002  | Amp Gauge                | 1    | 20   | 900-5017  | Oil Sending Unit            | 1    |
|      |           |                          |      |      | 900-2035  | Wiring Harness              | 1    |



## ONAN ENGINE PARTS

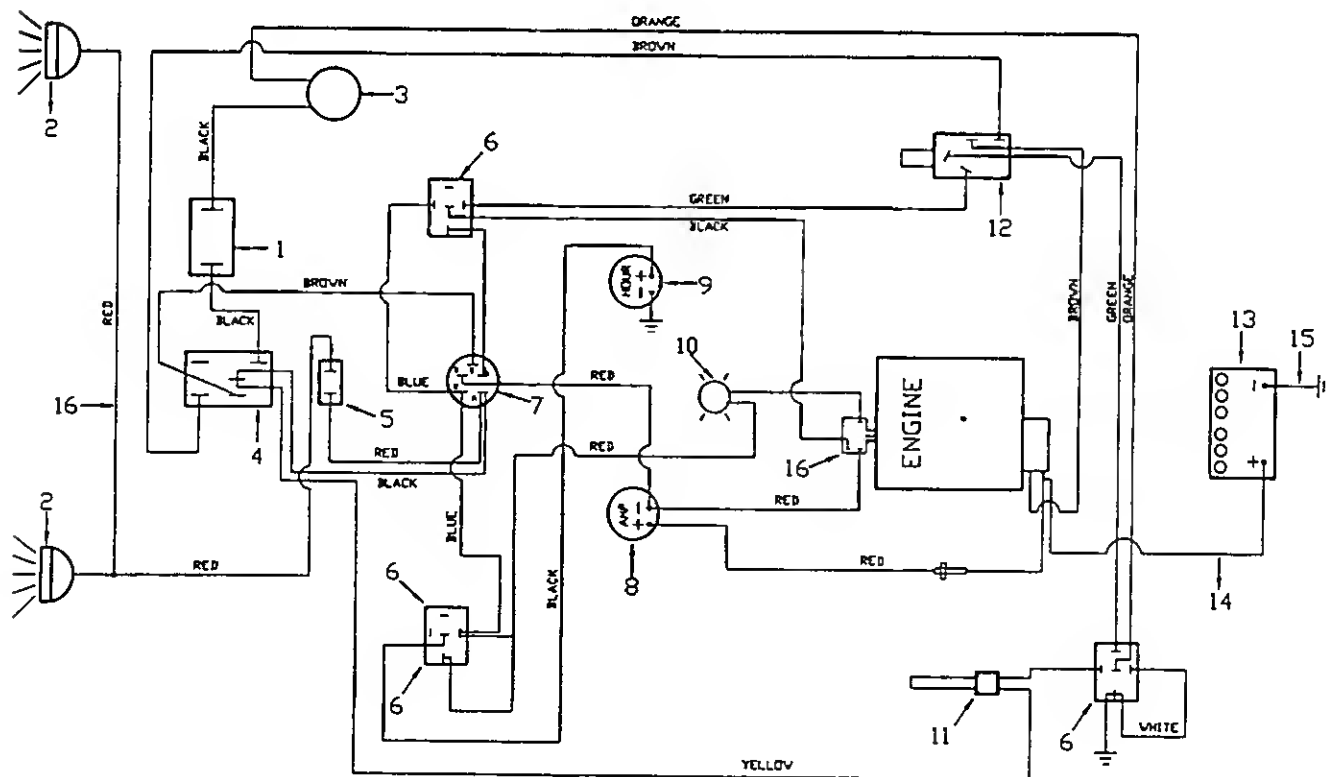
| Item | Order No. | Description             | Qty. | Item | Order No. | Description                    | Qty. |
|------|-----------|-------------------------|------|------|-----------|--------------------------------|------|
| 1    | 112-0018  | Heat Shield, Part A     | 1    | 16   | 900-2011  | Starter Wire                   | 1    |
| 2    | 112-0019  | Heat Shield, Part B     | 1    | 17   | 900-5716  | Electric Clutch (Complete)     | 1    |
| 3    | 112-0020  | Heat Shield, Part C     | 1    | 18   | 900-5575  | Clutch Retainer Washer         | 1    |
| 4    | 112-0021  | Heat Shield, Part D     | 1    | 19   | 900-5721  | Pipe Nipple, 3/8"              | 1    |
| 5    | 112-0017  | Clutch Stop             | 1    | 20   | 900-8024  | Pipe Plug, 3/8"                | 1    |
| 6    | 900-5023  | Muffler (Onan)          | 1    | 21   | 900-5720  | Pipe Elbow, 3/8"               | 1    |
| 7    | 900-5024  | Engine Shaft (Onan)     | 1    | 22   | 900-5514  | Fuel Filter                    | 2    |
| 8    | 900-5025  | Oil Filter (Onan)       | 1    | 23   | 900-5525  | Fuel Line Clamp                | 4    |
| 9    | 900-5026  | Filter Element (Onan)   | 1    | 24   | 900-5770  | Fuel Line, 3/8"                | 1    |
| 10   | 900-5027  | Filter Cartridge (Onan) | 1    | 25   | 900-2071  | Starter Harness                | 1    |
| 11   | 900-5728  | Grommet                 | 1    | 26   | 900-5582  | Clutch Brake                   | -    |
| 12   | 900-2502  | Pulley                  | 1    | 27   | 900-5747  | Clutch Armature                | -    |
| 13   | 100-0014  | Key Stock, 1/4" x 1"    | 1    | 28   | 900-5772  | Clutch Rotor                   | -    |
| 14   | 900-5742  | Trim, 10"               | 1    | 29   | 900-5586  | Clutch Brake Spring (Set of 3) | -    |
| 15   | 900-5742  | Trim, 7"                | 1    | 30   | 900-5773  | Clutch Coil                    | -    |



# WIRING DIAGRAM

(Onan Engine)

| Item | Order No. | Description              | Qty. | Item | Order No. | Description            | Qty. |
|------|-----------|--------------------------|------|------|-----------|------------------------|------|
| 1    | 900-2044  | 10 Amp Circuit Breaker   | 1    | 7    | 900-2065  | Ignition Switch (Onan) | 1    |
| 2    | 900-2014  | Headlight Assembly       | 2    | 8    | 900-2002  | Amp Gauge              | 1    |
|      | 900-2024  | Lens                     | -    | 9    | 900-2023  | Hour Meter             | 1    |
|      | 900-2025  | Bulb                     | -    | 10   | 900-2041  | Oil Light              | 1    |
|      | 900-2026  | Lamp                     | -    | 11   | 900-2001  | Seat Switch            | 1    |
|      | 900-2068  | Headlight Gasket         | -    | 12   | 900-2029  | Safety Switch          | 1    |
| 3    | 900-5716  | Electric Clutch Assembly | 1    | 13   | 900-2060  | Battery                | 1    |
| 4    | 900-2028  | PTO Clutch Switch        | 1    | 14   | 900-2011  | Starter Wire           | 2    |
| 5    | 900-2027  | Light Switch             | 1    | 15   | 900-2009  | Ground Wire            | 1    |
| 6    | 900-2037  | Relay                    | 3    |      | 900-2066  | Wiring Harness (Onan)  | 1    |

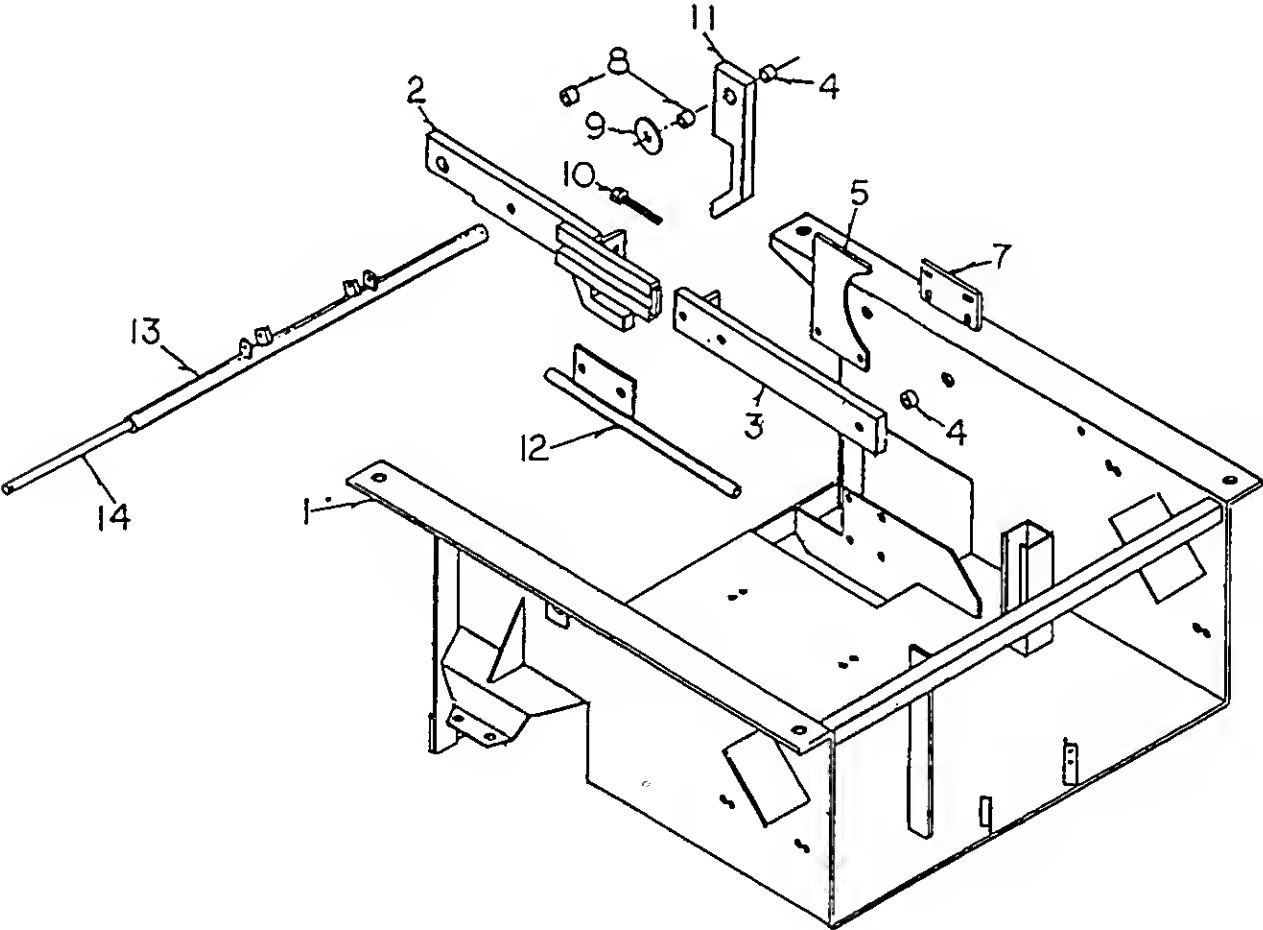


BASE ASSEMBLY

FR1800

(Serial Numbers Prior to 41-027-012814)

| Item | Order No.  | Description             | Qty. | Item | Order No. | Description               | Qty. |
|------|------------|-------------------------|------|------|-----------|---------------------------|------|
| 1    | 113-0000   | Base                    | 1    | 8    | 300-0013  | Bushing, Long             | 2    |
| 2    | 300-0023RH | Deck Lift Arm, Front RH | 1    | 9    | 200-0015  | Washer                    | 1    |
|      | 300-0023LH | Deck Lift Arm, Front LH | 1    | 10   | 900-6088  | Deck Belt Adjustment Bolt | 2    |
| 3    | 301-0024   | Deck Lift Arm, Back     | 2    | 11   | 111-0023  | Forward Nose Down Lock    | 1    |
| 4    | 300-0013S  | Bushing, Short          | 2    | 12   | 300-0041  | Wire Tube                 | 1    |
| 5    | 113-0007   | Belt Retainer           | 1    | 13   | 300-0014  | Cross Bar                 | 1    |
| 7    | 112-0008   | Belt Retainer Mount     | 1    | 14   | 300-0022  | Cross Bar Pin             | 1    |

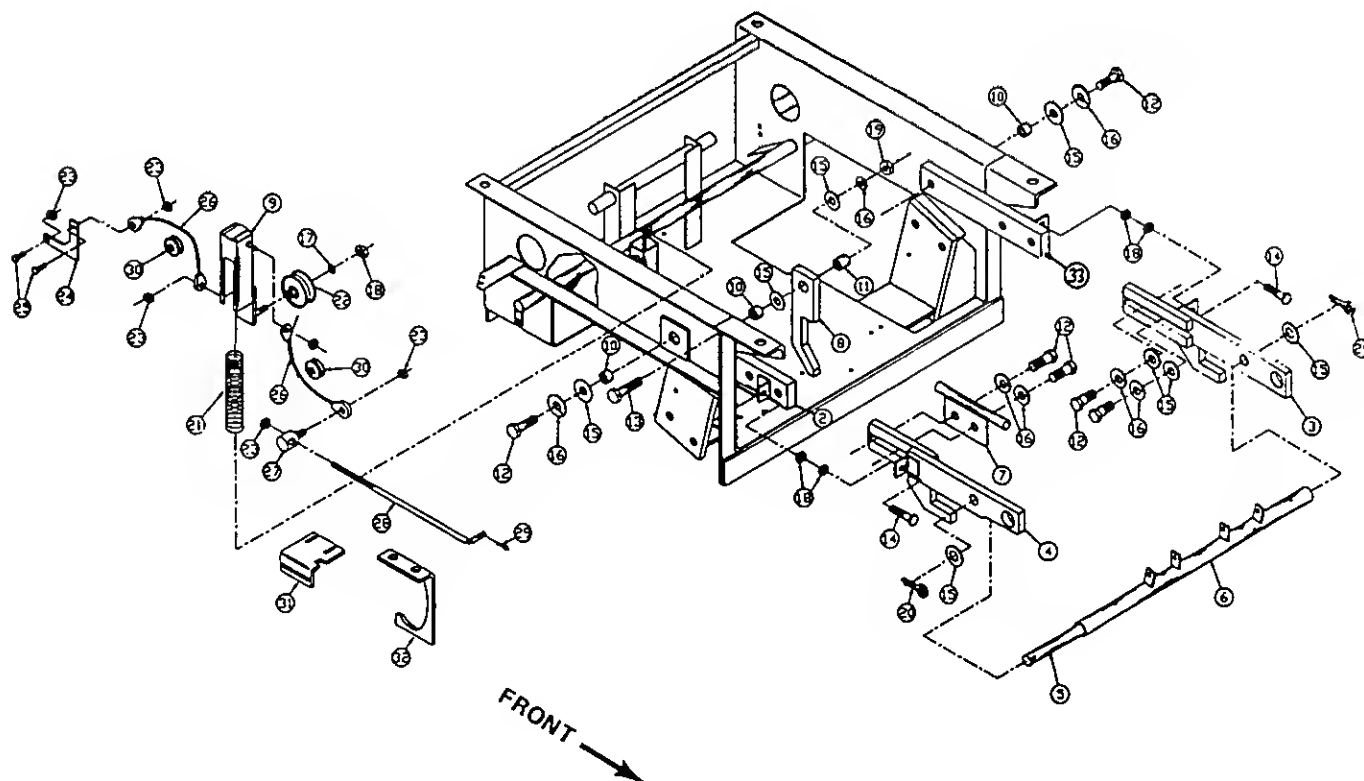


# AGRI-FAB SUNDSTRAND BASE ASSEMBLY

FR-1800

(Serial Numbers 41-027-012814 &amp; Later)

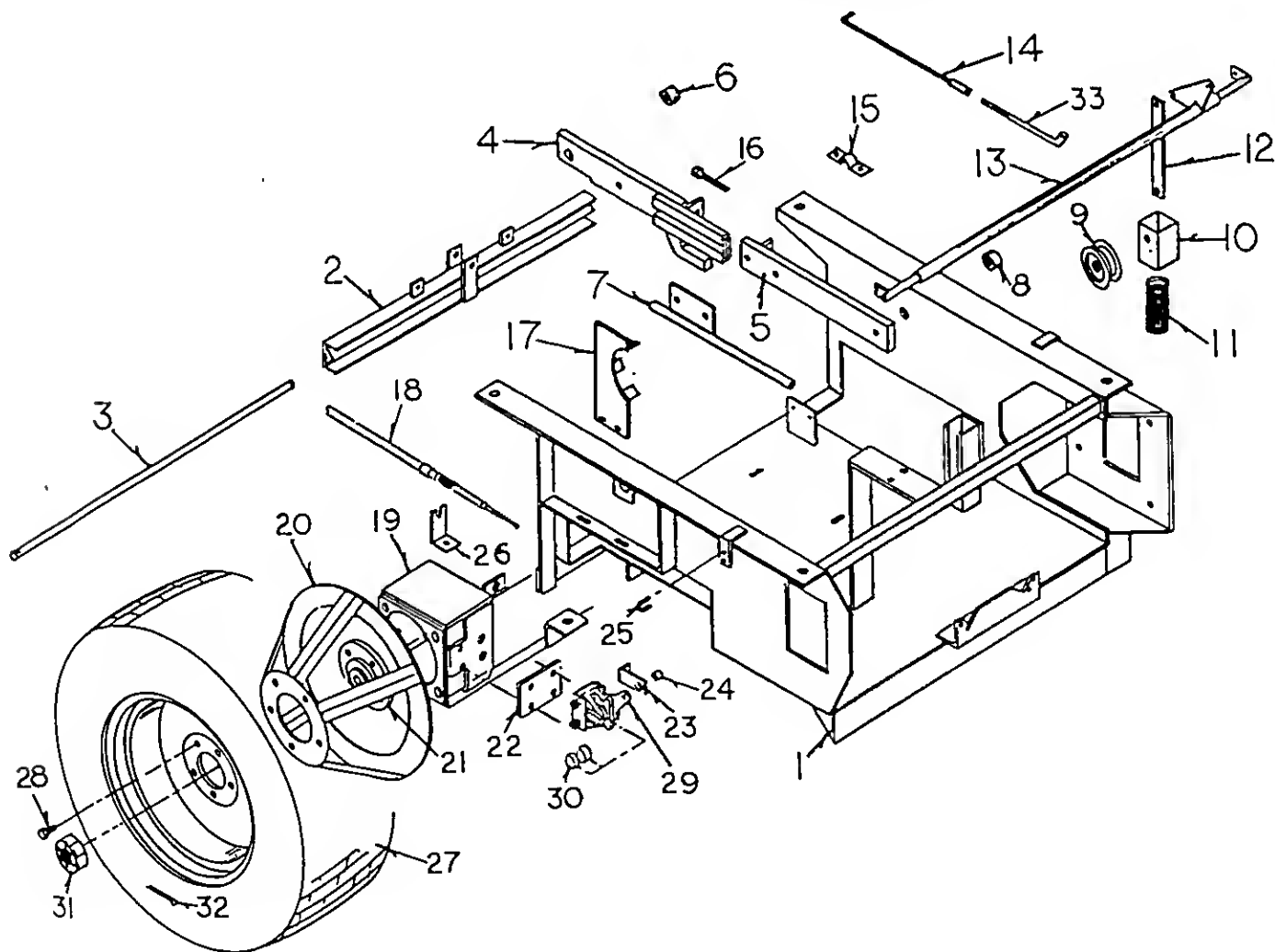
| Item | Order No.  | Description                    | Qty. | Item | Order No.  | Description                  | Qty. |
|------|------------|--------------------------------|------|------|------------|------------------------------|------|
| 1    | 114-0000   | Base, SA                       | 1    | 17   | 900-6067   | Lockwasher, 3/8"             | 1    |
| 2    | 301-0024   | Deck Arm                       | 1    | 18   | 900-6075   | Hex Nut, 3/8-16              | 5    |
| 3    | 300-0023LH | Deck Arm, Front, LH            | 1    | 19   | 900-6125   | Hex Nut, 1/2-13              | 1    |
| 4    | 300-0023RH | Deck Arm, Front, RH            | 1    | 20   | 900-6176   | Cotter Pin, 1/8" x 1"        | 2    |
| 5    | 300-0022   | Cross Bar Pin                  | 1    | 21   | 900-5580   | Trans. Belt Tightener Spring | 1    |
| 6    | 300-0014   | Cross Bar                      | 1    | 22   | 900-2553   | Idler Pulley, 2 1/4" OD      | 1    |
| 7    | 300-0041   | Wire Tube                      | 1    | 23   | 900-6027   | Elastic Stop Nut, 1/4-20     | 6    |
| 8    | 111-0023   | Forward Nose Down Lock         | 1    | 24   | 114-0014   | L Brake Linkage              | 1    |
| 9    | 114-0003   | Drive Idler Tube               | 1    | 25   | 900-6031   | Hex Bolt, 1/4-20 x 1", GR5   | 2    |
| 10   | 300-0013S  | Deck Lift Arm Bushing, Short   | 3    | 26   | 900-5824   | Clutch Brake Cable           | 2    |
| 11   | 300-0013   | Deck Lift Arm Bushing          | 1    | 27   | 111-0014   | Caliper Rod Collar           | 1    |
| 12   | 900-6129   | Hex Bolt, 1/2-13 x 1 1/4", GR5 | 6    | 28   | 111-0007   | Caliper Rod                  | 1    |
| 13   | 900-6131   | Hex Bolt, 1/2-13 x 2 1/4", GR5 | 1    | 29   | 900-6175   | Cotter Pin, 3/32" x 1"       | 1    |
| 14   | 900-6088   | Hex Tap Bolt, 3/8-16 x 3", GR5 | 2    | 30   | 900-2554   | Cable Pulley, 1 1/2" OD      | 2    |
| 15   | 900-6128   | Flatwasher, 1/2"               | 8    | 31   | 114-0010   | Engine Belt Retainer Bracket | 1    |
| 16   | 900-6127   | Lockwasher, 1/2"               | 7    | 32   | 114-0011   | Engine Belt Retainer         | 1    |
|      |            |                                |      | 33   | 301-0024LH | Deck Arm, LH                 | 1    |



# BASE ASSEMBLY

FR2000C

| Item | Order No.  | Description                     | Qty. | Item | Order No. | Description                  | Qty. |
|------|------------|---------------------------------|------|------|-----------|------------------------------|------|
| 1    | 112-0000   | Base                            | 1    | 20   | 140-0047  | Brake Disc                   | 2    |
| 2    | 112-0016   | Lift Bar                        | 1    | 21   | 900-4028  | 5 Bolt Hub                   | 2    |
| 3    | 300-0022   | Cross Bar Pin                   | 1    | 22   | 112-0002  | Brake Caliper Mount          | 2    |
| 4    | 300-0023RH | Deck Lift Arm, Front Adjustable | 1    | 23   | 200-0013  | Cable End                    | 4    |
|      | 300-0023LH | Deck Lift Arm, Front Adjustable | 1    | 24   | 200-0014  | Bushing                      | 4    |
| 5    | 330-0024   | Deck Lift Arm, Back             | 2    | 25   | 900-5503  | Clamp                        | 2    |
| 6    | 300-0013   | Bushing, Long                   | 2    | 26   | 112-0005  | Cable Dead Head              | 2    |
| 7    | 300-0041   | Wire Tube                       | 1    | 27   | 900-4037  | Tire Assembly, 20 x B.00-10  | 2    |
| 8    | 300-0013S  | Bushing, Short                  | 2    |      | 900-4043  | Tire, 20 x 8.00-10           | -    |
| 9    | 900-2541   | Idler Pulley                    | 1    |      | 900-4044  | Rim                          | -    |
| 10   | 111-0019   | Spring Loaded Idler Mount       | 1    | 27   | 900-4039  | Tire Assembly, 20 x 10.00-10 | 2    |
| 11   | 900-5580   | Spring                          | 1    |      | 900-4045  | Tire, 20 x 10.00-10          | -    |
| 12   | 112-0014   | Pivot Bar Linkage               | 1    |      | 900-4046  | Rim                          | -    |
| 13   | 112-0013   | Brake Clutch Rod                | 1    | 28   | 900-6105  | Lug Bolt                     | 10   |
| 14   | 113-0014   | Brake Rod, Adjustable           | 1    | 29   | 900-5691  | Brake Caliper, LH (Shown)    | 1    |
| 15   | 111-0004   | Cross Rod Bearing               | 2    |      | 900-5690  | Brake Caliper, RH            | 1    |
| 16   | 900-608B   | Deck Arm Adjusting Bolt         | 2    | 30   | 900-5567  | Brake Pucks                  | -    |
| 17   | 112-0015   | Belt Retainer                   | 1    | 31   | 900-8126  | Hub Nut                      | 2    |
| 18   | 900-5718   | Brake Cables                    | 2    | 32   | 900-6177  | Cotter Key                   | 2    |
| 19   | 112-0001   | Axle                            | 1    | 33   | 111-0007  | Caliper Rod                  | 1    |

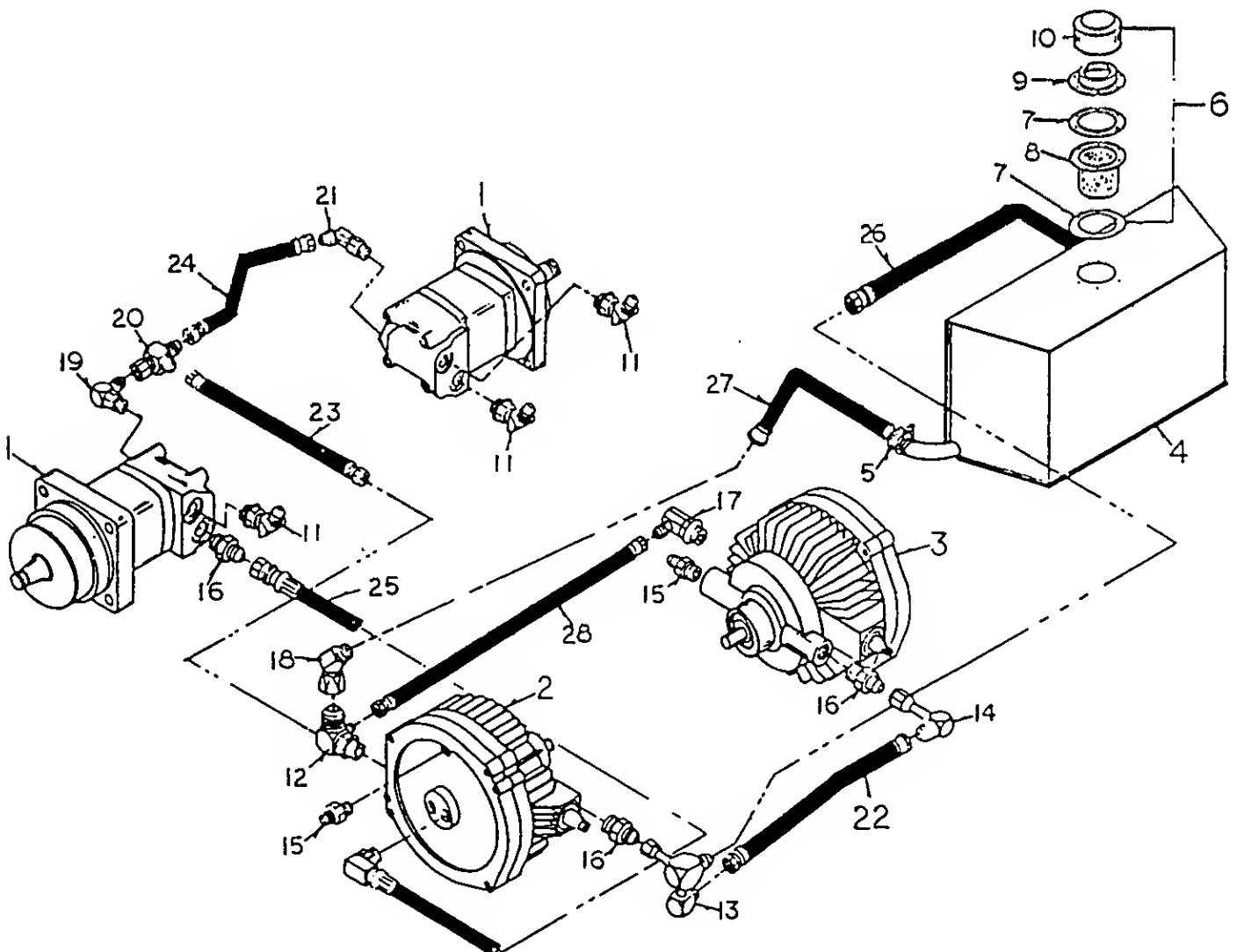




## WHEEL MOTOR &amp; PUMP ASSEMBLY

FR-2000C

| Item | Order No. | Description                          | Qty. | Item | Order No. | Description                           | Qty. |
|------|-----------|--------------------------------------|------|------|-----------|---------------------------------------|------|
| 1    | 900-8065  | Wheel Motor                          | 2    | 18   | 900-8093  | Male Tube, 45° Female Swivel Adapter  | 1    |
| 2    | 900-8064  | Pump, LH                             | 1    | 19   | 900-8015  | Male Tube, 90° Male O-ring Adapter    | 1    |
| 3    | 900-8063  | Pump, RH                             | 1    | 20   | 900-8096  | Male Tube, Female Swivel Tee          | 1    |
| 4    | 900-8060  | Hydraulic Oil Tank                   | 1    | 21   | 900-8114  | Male Tube, 45° Female Swivel Adapter  | 1    |
| 5    | 900-5629  | Hose Clamp                           | 2    | 22   | 900-8109  | Hose, 1/2" 10 x 18" Long, Easy Couple | 1    |
| 6    | 900-8046  | Hydraulic Fill Cap Assembly          | 1    | 23   | 900-8107  | Hose, 1/4" 10 x 14" Long, Easy Couple | 1    |
| 7    | 900-8043  | Gasket                               | -    | 24   | 900-8108  | Hose, 1/4" 10 x 20" Long, Easy Couple | 1    |
| 8    | 900-8042  | Strainer                             | -    | 25   | 900-8100  | Hose, 1/2" ID x 36 1/2" Long          | 4    |
| 9    | 900-8044  | Fill Neck                            | -    | 26   | 900-8112  | Hose, 3/4" ID x 22" Long, Easy Couple | 1    |
| 10   | 900-8045  | Breather Cap                         | -    | 27   | 900-8111  | Hose, 3/4" 10 x 18" Long, Easy Couple | 1    |
| 11   | 900-8016  | Male Tube, 45° Male O-ring Adapter   | 3    | 28   | 900-8110  | Hose, 1/2" 10 x 20" Long, Easy Couple | 1    |
| 12   | 900-8092  | Special Cross                        | 1    |      |           |                                       |      |
| 13   | 900-8091  | Special Adapter                      | 1    |      |           |                                       |      |
| 14   | 900-8004  | Male Tube, 90° Female Swivel Adapter | 1    |      |           |                                       |      |
| 15   | 900-8094  | Male Tube, Male O-ring Adapter       | 4    |      |           |                                       |      |
| 16   | 900-8097  | Male Tube, Male O-ring Adapter       | 3    |      |           |                                       |      |
| 17   | 900-8075  | Male Tube, 90° Male O-ring Adapter   | 1    |      |           |                                       |      |

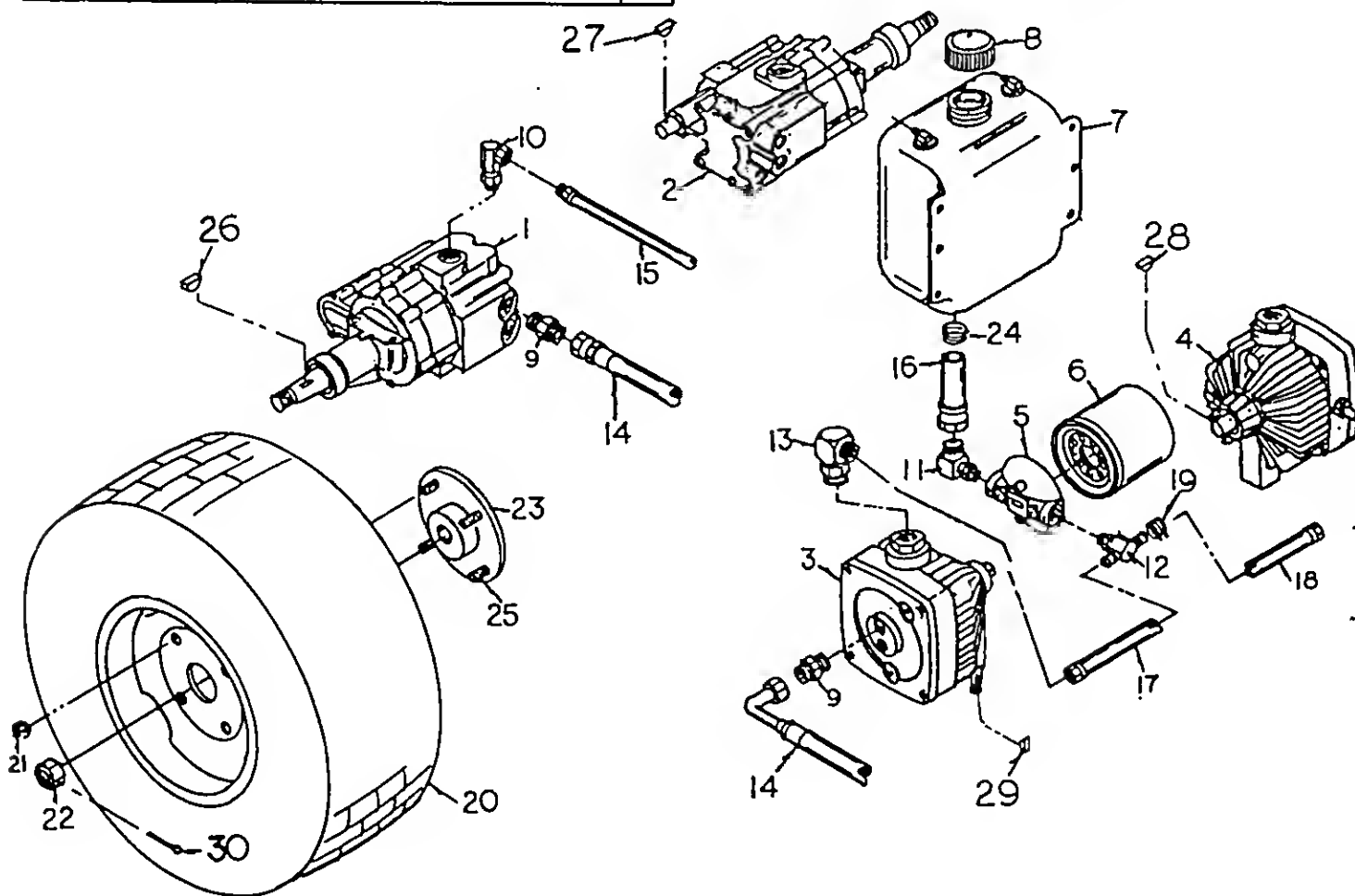


# WHEEL MOTOR & PUMP ASSEMBLY

FR1800

(Serial Numbers Prior to 41-027-012814)

| Item | Order No. | Description                              | Qty. | Item | Order No. | Description                                   | Qty. |
|------|-----------|--|------|------|-----------|---|------|
| 1    | 900-8069  | Wheel Motor, LH                          | 1    | 18   | 900-8080  | Hose, 1/2" ID x 12" Long, Easy Couple         | 1    |
| 2    | 900-8068  | Wheel Motor, RH                          | 1    | 19   | 900-5729  | Hose Clamp, 1/2"                              | 2    |
| 3    | 900-8067  | Model 7 Pump, LH                         | 1    | 20   | 900-4013  | Wheel Ass'y., 18 x 9.50-8                     | 2    |
| 4    | 900-8066  | Model 7 Pump, RH                         | 1    |      | 900-4042  | Tire, 18 x 9.50-8                             | -    |
| 5    | 900-8072  | Housing, Oil Filter                      | 1    |      | 900-4008  | Rim, 8" x 7"                                  | -    |
| 6    | 900-8073  | Element, Oil Filter                      | 1    | 20   | 900-4038  | Wheel Ass'y., 18 x 6.50-8 (Use With 42" Deck) | 2    |
| 7    | 900-8058  | 3 Qt. Oil Tank                           | 1    |      | 900-4041  | Tire, 18 x 6.50-8                             | -    |
| 8    | 900-8059  | Cap, Oil Tank                            | 1    |      | 900-4040  | Rim, 8 x 5 1/2"                               | -    |
| 9    | 900-8005  | Male Tube, Male O-ring Adp.              | 8    | 21   | 900-6138  | Lug Nut, 1/2-20                               | 8    |
| 10   | 900-8074  | Male O-ring, 90° Female Pipe Swivel Adp. | 2    | 22   | 900-8125  | Nut, Wheel Motor                              | 2    |
| 11   | 900-8076  | Male O-ring, 90° Male Tube Adp.          | 1    | 23   | 900-4036  | 4-Bolt Wheel Hub                              | 2    |
| 12   | 900-8077  | Male O-ring, 1/2" Hose Barb Tee          | 1    | 24   | 900-5733  | Hose Clamp, 5/8"                              | 1    |
| 13   | 900-8075  | Male O-ring, 90° Male Tube Adp.          | 2    | 25   | 900-6137  | Lug Bolt, 1/2-20 x 1 1/4"                     | 8    |
| 14   | 900-8078  | Hose, 1/2" ID x 28" Long                 | 4    | 26   | 900-8124  | Woodruff Key, 1/4" x 1"                       | 2    |
| 15   | 900-8071  | Hose, 1/4" ID x 24" Long, Easy Couple    | 2    | 27   | 900-8090  | Woodruff Key, 3/16" x 3/4"                    | 2    |
| 16   | 900-8079  | Hose, 5/8" ID x 3 3/4" Long, Easy Couple | 1    | 28   | 900-4508  | Woodruff Key, 1/8" x 1/2"                     | 2    |
| 17   | 900-8081  | Hose, 1/2" ID x 7 3/4" Long, Easy Couple | 1    | 29   | 900-4524  | Woodruff Key, 1/8" x 3/8"                     | 2    |
|      |           |  |      | 30   | 900-8122  | Cotter Pin, 1/8" x 1 3/4"                     | 2    |

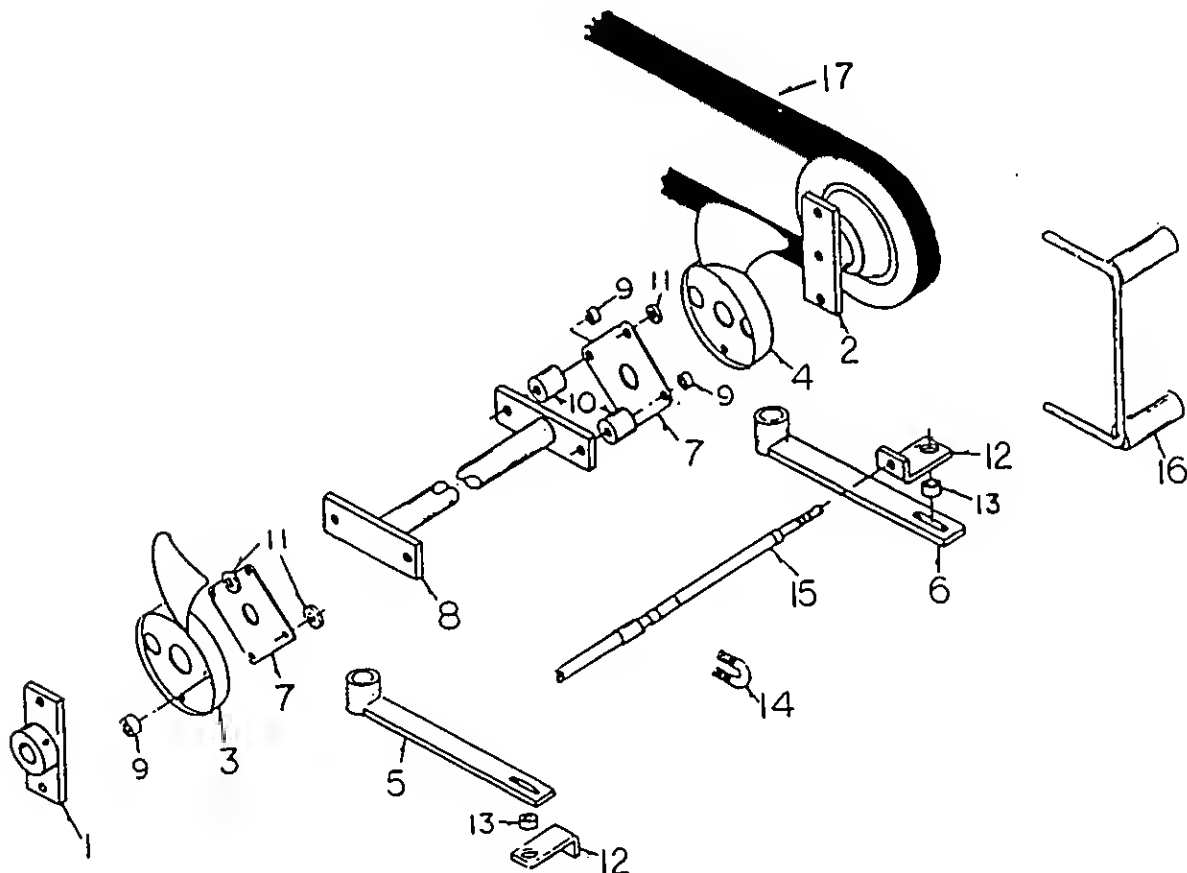


# TRANSMISSION DRIVE

(Serial Numbers Prior to 41-027-012814)

33

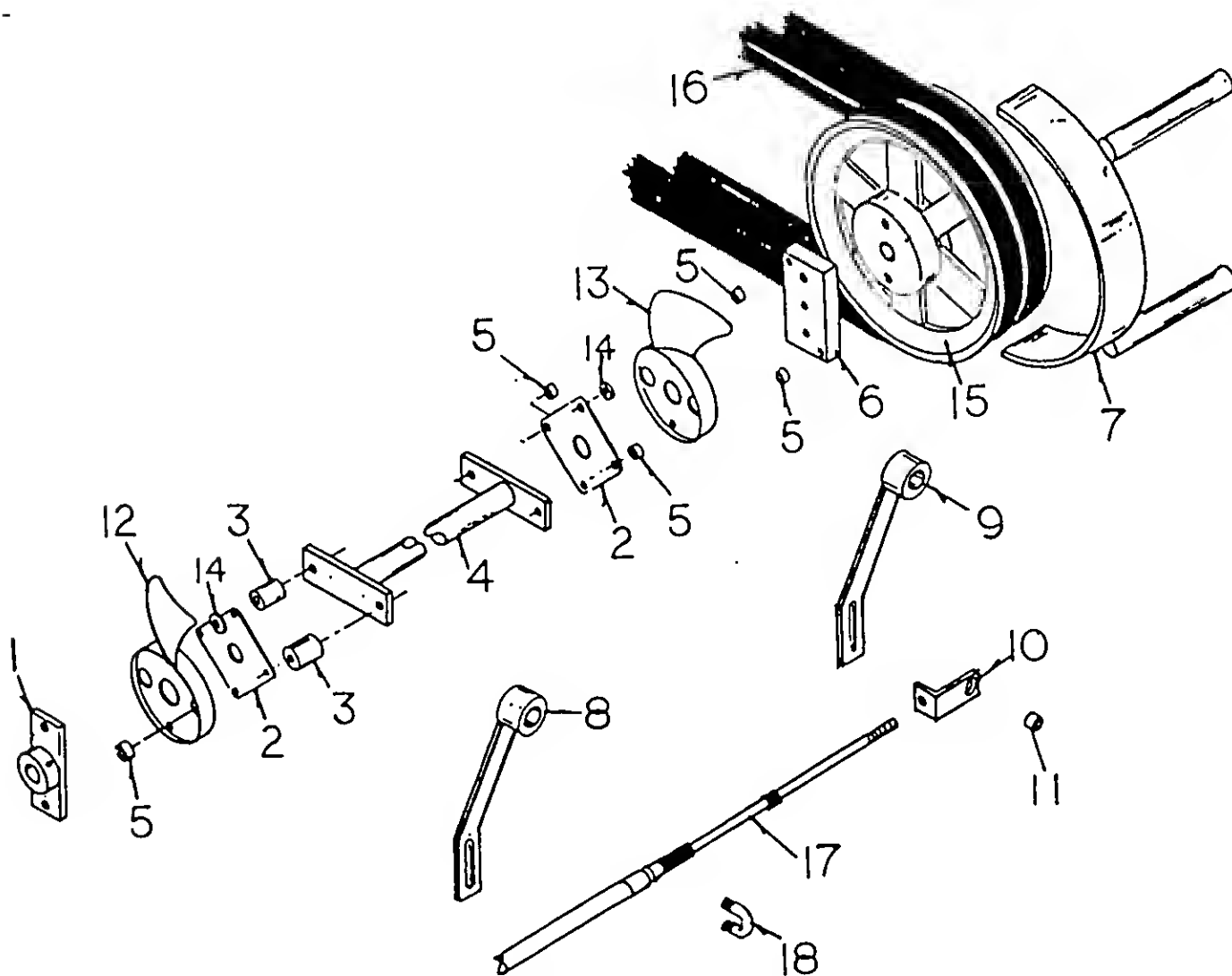
| Item | Order No. | Description              | Qty. | Item | Order No. | Description                 | Qty. |
|------|-----------|--------------------------|------|------|-----------|-----------------------------|------|
| 1    | 900-4522  | Hub w/Drive Plate        | 1    | 10   | 111-0022  | Spacer                      | 2    |
| 2    | 900-4521  | Pulley w/Drive Plate     | 1    | 11   | 900-6161  | Washer, 1/4", 10 Ga.        | 6    |
| 3    | 900-4527  | CCW Fan                  | 1    | 12   | 200-0013  | Steering Cable End          | 4    |
| 4    | 900-4526  | CW Fan                   | 1    | 13   | 200-0014  | Bushing, Steering Lever     | 4    |
| 5    | 900-4506  | Transmission Arm, LH     | 1    | 14   | 900-5503  | Steering Cable Clamp        | 4    |
| 6    | 900-4507  | Transmission Arm, RH     | 1    | 15   | 900-5502  | Steering Cable              | 2    |
| 7    | 111-0021  | Drive Plate              | 2    | 16   | 111-0003  | Belt Retainer, Transmission | 1    |
| 8    | 113-0002  | Transmission Cross Shaft | 1    | 17   | 900-3011  | Belt                        | 1    |
| 9    | 111-0025  | Bolt Spacer              | 4    |      |           |                             |      |



## TRANSMISSION DRIVE

FR-2000C

| Item | Order No. | Description                | Qty. | Item | Order No. | Description                 | Qty. |
|------|-----------|----------------------------|------|------|-----------|-----------------------------|------|
| 1    | 112-0012  | Hub w/Drive Plate          | 1    | 10   | 140-0023  | Steering Cable Ends         | 4    |
| 2    | 111-0021  | Drive Plate                | 2    | 11   | 200-0014  | Steering Cable Ends Bushing | 4    |
| 3    | 111-0022  | Spacer                     | 2    | 12   | 900-4527  | CCW Fan, LH                 | 1    |
| 4    | 112-0009  | Cross Shaft                | 1    | 13   | 900-4526  | CW Fan, RH                  | 1    |
| 5    | 111-0025  | Bolt Spacer                | 6    | 14   | 900-6161  | Washer, 5/16"               | 4    |
| 6    | 112-0007  | Cross Bar Block            | 1    | 15   | 900-2542  | Pulley                      | 1    |
| 7    | 112-0006  | Transmission Belt Retainer | 1    | 16   | 900-3022  | Belts                       | 2    |
| 8    | 112-0004  | Transmission Arm, LH       | 1    | 17   | 900-5717  | Steering Cable              | 2    |
| 9    | 112-0003  | Transmission Arm, RH       | 1    | 18   | 900-5625  | Clamp                       | 2    |

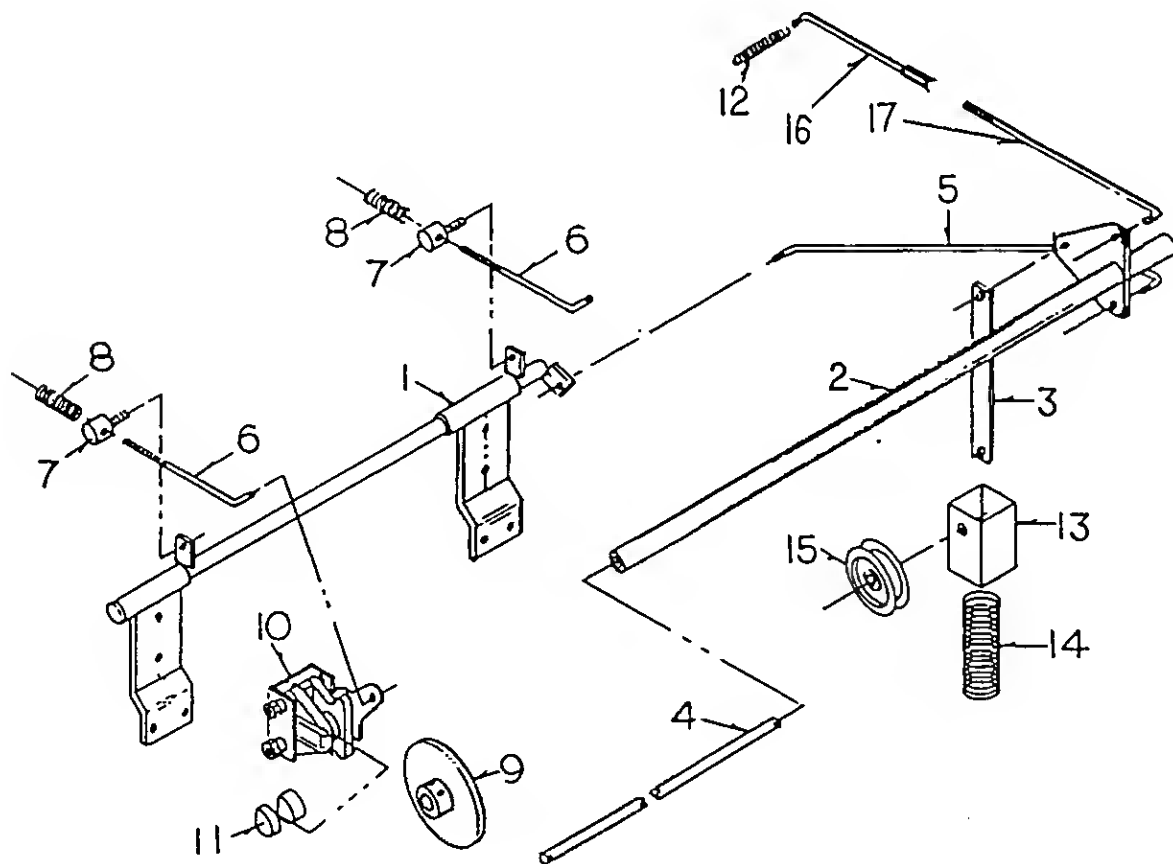


# BRAKE ASSEMBLY

FR1800

(Serial Numbers Prior to 41-027-012814)

| Item | Order No. | Description                       | Qty. | Item | Order No. | Description                    | Qty. |
|------|-----------|-----------------------------------|------|------|-----------|--------------------------------|------|
| 1    | 113-0003  | Brake Mount & Cross Rod Ass'y.    | 1    | 9    | 900-4525  | Brake Disc                     | 2    |
| 2    | 113-0013  | Brake Clutch Cross Rod            | 1    | 10   | 900-5690  | Brake Assembly                 | 2    |
| 3    | 113-0012  | Cross Rod to Idler Pulley Linkage | 1    | 11   | 900-5567  | Brake Pucks                    | -    |
| 4    | 300-0022  | Cross Bar Pin                     | 1    | 12   | 900-5501  | Brake Pedal Spring             | 1    |
| 5    | 113-0006  | Cross Rod to Brake Linkage        | 1    | 13   | 111-0019  | Spring Loaded Idler Mount      | 1    |
| 6    | 113-0001  | Caliper Rod                       | 2    | 14   | 900-5580  | Transmission Belt Idler Spring | 1    |
| 7    | 111-0014  | Caliper Rod Collar                | 2    | 15   | 900-2501  | Idler Pulley                   | 1    |
| 8    | 900-5722  | Brake Caliper Spring              | 2    | 16   | 113-0014  | Brake Rod, Adjustable          | 1    |
|      |           |                                   |      | 17   | 111-0007  | Caliper Rod                    | 1    |



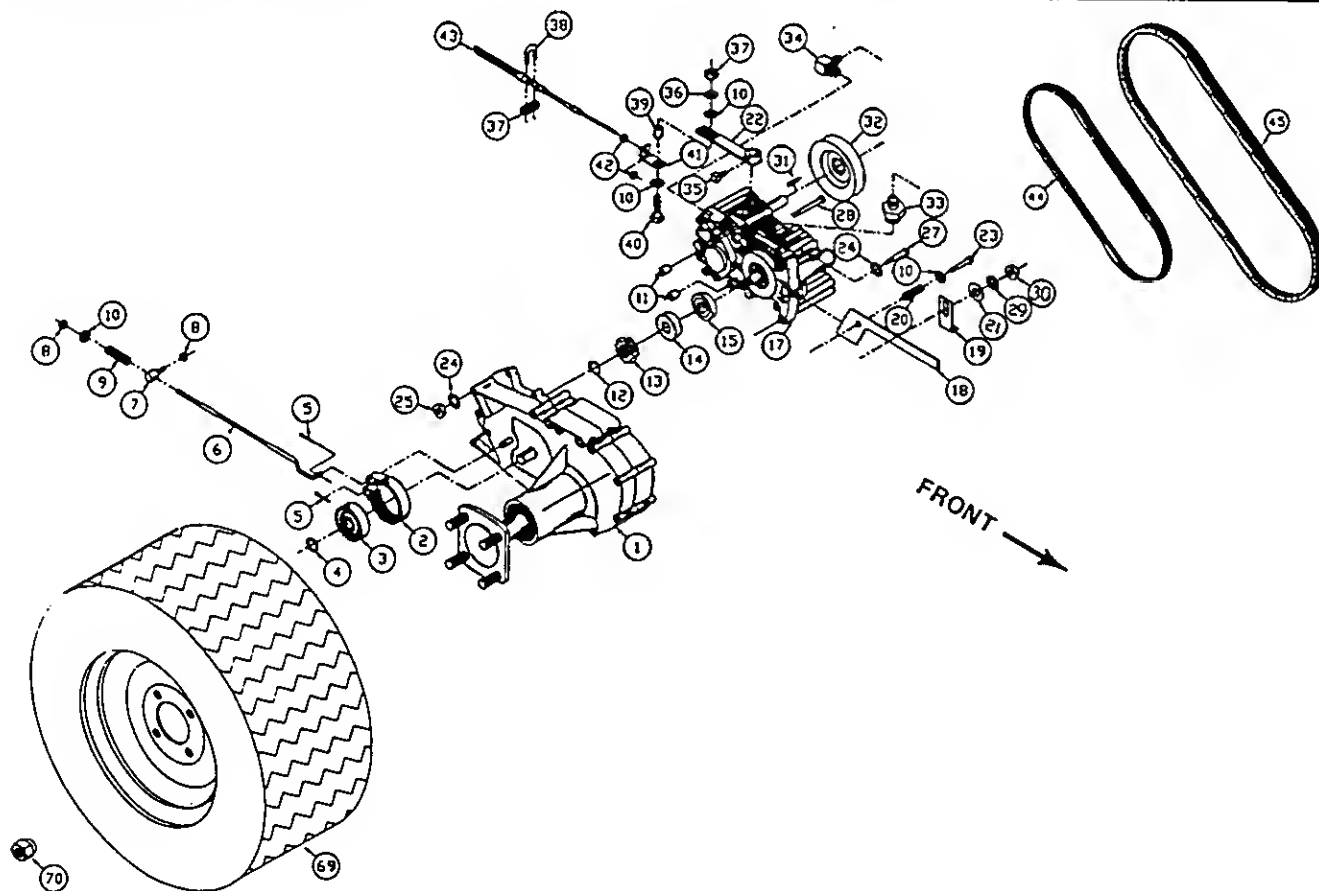
# AGRI-FAB SUNDSTRAND DRIVE ASSEMBLY

(Serial Number 41--027-012814 & Later)

Illustration No. 1

Right-Hand Drive Parts

| Order |          |                                       |      | Order |          |                                     |      |
|-------|----------|---------------------------------------|------|-------|----------|-------------------------------------|------|
| Item  | No.      | Description                           | Qty. | Item  | No.      | Description                         | Qty. |
| 1     | 900-8134 | ZT Transmission                       | 1    | 27    | 900-6061 | Hex Bolt, 5/16-18 x 2", GR5         | 2    |
| 2     | 900-7050 | Brake Band                            | -    | 28    | 900-6073 | Hex Bolt, 5/16-18 x 7 1/2", GR5     | 2    |
| 3     | 900-7051 | Brake Drum                            | -    | 29    | 900-5840 | Lockwasher, 3/8"                    | 1    |
| 4     | 900-7052 | Snap Ring                             | -    | 30    | 900-8164 | Hex Nut, 3/8-16                     | 1    |
| 5     | 900-6167 | Cotter Pin, 1/8" x 1"                 | 2    | 31    | 900-6168 | Key, 5 x 5 x 25mm                   | 1    |
| 6     | 114-0004 | Brake Linkage Rod                     | 1    | 32    | 900-2552 | Pulley, 4" OD x 15mm ID             | 1    |
| 7     | 111-0014 | Caliper Rod Collar                    | 1    | 33    | 900-8168 | Male Tube, Male O-ring Adapter      | 1    |
| 8     | 900-6027 | Elastic Stop Nut, 1/4-20              | 2    | 34    | 900-8116 | Male Tube, 90° Male O-ring Adpt.    | 1    |
| 9     | 900-5722 | Spring                                | 1    | 35    | 900-6058 | Squarehead Setscrew, 5/16-18 x 1/2" | 1    |
| 10    | 900-6029 | Flatwasher, 1/4"                      | 5    | 36    | 900-6058 | Lockwasher, 1/4"                    | 1    |
| 11    | 900-7045 | Spacer                                | 2    | 37    | 900-6028 | Hex Nut, 1/4-20                     | 3    |
| 12    | 900-7046 | Snap Ring                             | 1    | 38    | 900-5503 | Steering Cable Clamp                | 1    |
| 13    | 900-7047 | Gear                                  | 1    | 39    | 200-0014 | Steering Cable Bushing              | 1    |
| 14    | 900-7048 | Bearing                               | 1    | 40    | 900-6031 | Hex Bolt, 1/4-20 x 1", GR5          | 1    |
| 15    | 900-7049 | Spacer                                | 1    | 41    | 200-0013 | Steering Cable End                  | 1    |
| 17    | 900-8132 | Sundstrand Pump, RH                   | 1    | 42    | 900-6150 | Hex Nut w/Star Washer, 10-32        | 2    |
| 18    | 114-0005 | Transmission Dump Lever               | 1    | 43    | 900-5819 | Steering Cable, 3/16" x 58"         | 1    |
| 19    | 114-0001 | Transmission Dump Lever Stop          | 1    | 44    | 900-3027 | Pump Drive Belt                     | 1    |
| 20    | 900-6501 | Compression Spring, 9/16" OD x 1 3/8" | 1    | 45    | 900-3010 | Belt                                | 1    |
| 21    | 900-6052 | Flatwasher, 3/8"                      | 1    | 69    | 900-4048 | Drive Wheel Assembly                | 1    |
| 22    | 114-0013 | Transmission Arm                      | 1    |       | 900-4042 | Tire, 18 x 9.50-8                   | -    |
| 23    | 900-6019 | Dump Valve Bolt                       | 1    |       | 900-4040 | Rim, 8 x 5 1/2"                     | -    |
| 24    | 900-6051 | Lockwasher, 5/16"                     | 4    | 70    | 900-6138 | Lug Nut, 1/2-20                     | 4    |
| 25    | 900-6050 | Hex Nut, 5/16-18                      | 2    |       |          |                                     |      |



# AGRI-FAB SUNDSTRAND DRIVE ASSEMBLY

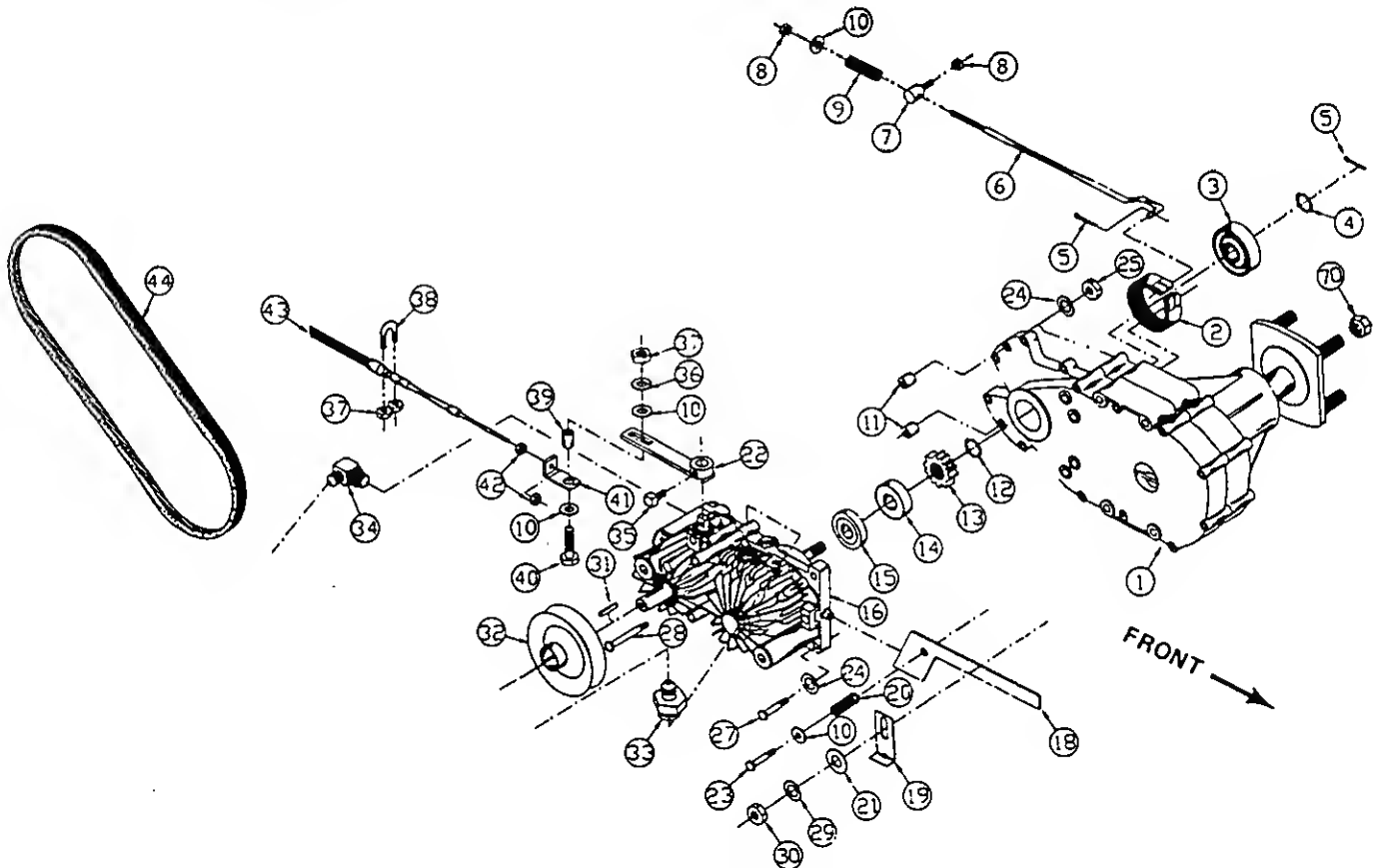
(Serial Number 41-027-012814 & Later)

Illustration No. 2

Left-Hand Drive Parts

37

| Item | Order No. | Description                             | Qty. | Item | Order No. | Description                         | Qty. |
|------|-----------|---|------|------|-----------|-------------------------------------|------|
| 1    | 900-8134  | ZT Transmission                         | 1    | 25   | 900-6050  | Hex Nut, 5/16-18                    | 2    |
| 2    | 900-7050  | Brake Band                              | -    | 27   | 900-6061  | Hex Bolt, 5/16-18 x 2", GR5         | 2    |
| 3    | 900-7051  | Brake Drum                              | -    | 28   | 900-6073  | Hex Bolt, 5/16-18 x 7 1/2", GR5     | 2    |
| 4    | 900-7052  | Snap Ring                               | -    | 29   | 900-5840  | Lockwasher, 3/8"                    | 1    |
| 5    | 900-6167  | Cotter Pin, 1/8" x 1"                   | 2    | 30   | 900-8164  | Hex Nut, 3/8-16                     | 1    |
| 6    | 114-0004  | Brake Linkage Rod                       | 1    | 31   | 900-6168  | Key, 5 x 5 x 25mm                   | 1    |
| 7    | 111-0014  | Caliper Rod Collar                      | 1    | 32   | 900-2552  | Pulley, 4" O.D. x 15mm I.D.         | 1    |
| 8    | 900-6027  | Elastic Stop Nut, 1/4-20                | 2    | 33   | 900-8168  | Male Tube, Male O-ring Adapter      | 1    |
| 9    | 900-5722  | Spring                                  | 1    | 34   | 900-8116  | Male Tube, 90° Male O-ring Adpt.    | 1    |
| 10   | 900-6029  | Flatwasher, 1/4"                        | 5    | 35   | 900-6058  | Squarehead Setscrew, 5/16-18 x 1/2" | 1    |
| 11   | 900-7045  | Spacer                                  | 2    | 36   | 900-6028  | Lockwasher, 1/4"                    | 1    |
| 12   | 900-7046  | Snap Ring                               | 1    | 37   | 900-6026  | Hex Nut, 1/4-20                     | 3    |
| 13   | 900-7047  | Gear                                    | 1    | 38   | 900-5503  | Steering Cable Clamp                | 1    |
| 14   | 900-7048  | Bearing                                 | 1    | 39   | 200-0014  | Steering Cable Bushing              | 1    |
| 15   | 900-7049  | Spacer                                  | 1    | 40   | 900-6031  | Hex Bolt, 1/4-20 x 1", GR5          | 1    |
| 16   | 900-8133  | Sundstrand Pump, LH                     | 1    | 41   | 200-0013  | Steering Cable End                  | 1    |
| 18   | 114-0005  | Transmission Dump Lever                 | 1    | 42   | 900-6150  | Hex Nut w/Star Washer, 10-32        | 2    |
| 19   | 114-0001  | Transmission Dump Lever Stop            | 1    | 43   | 900-5819  | Steering Cable, 3/16" x 58"         | 1    |
| 20   | 900-6501  | Compression Spring, 9/16" O.D. x 1 3/8" | 1    | 44   | 900-3027  | Pump Drive Belt                     | 1    |
| 21   | 900-6052  | Flatwasher, 3/8"                        | 1    | 69   | 900-4048  | Drive Wheel Assembly (Not Shown)    | 1    |
| 22   | 114-0013  | Transmission Arm                        | 1    |      | 900-4042  | Tire, 18 x 9.50-8                   | -    |
| 23   | 900-6019  | Dump Valve Bolt                         | 1    |      | 900-4040  | Rim, 8 x 5 1/2"                     | -    |
| 24   | 900-6051  | Lockwasher, 5/16"                       | 4    | 70   | 900-6138  | Lug Nut, 1/2-20                     | 4    |



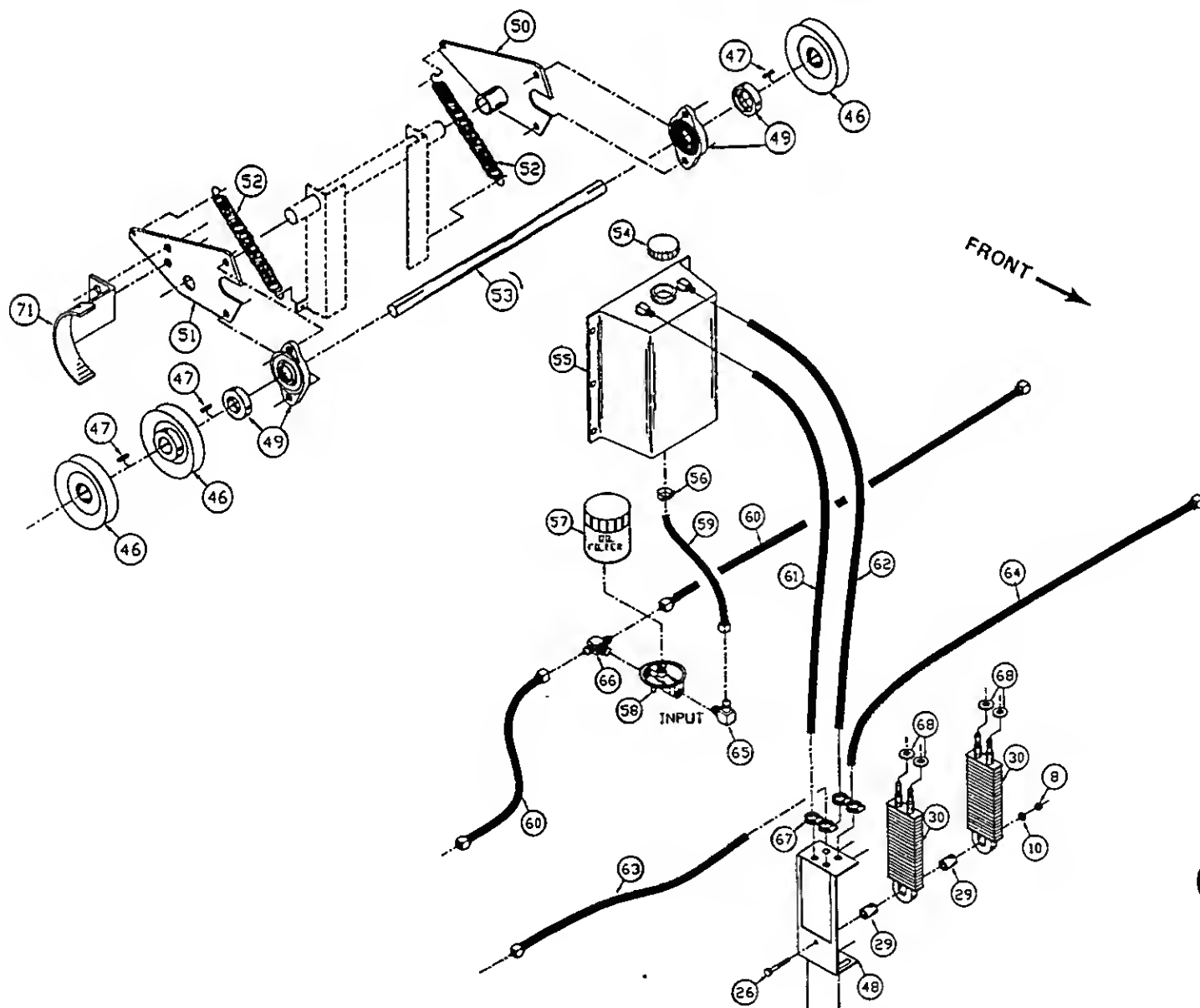
# AGRI-FAB SUNDSTRAND DRIVE ASSEMBLY

(Serial Number 41-027-012814 & Later)

Illustration No. 3

Hydraulic System Parts & Cross Shaft Parts

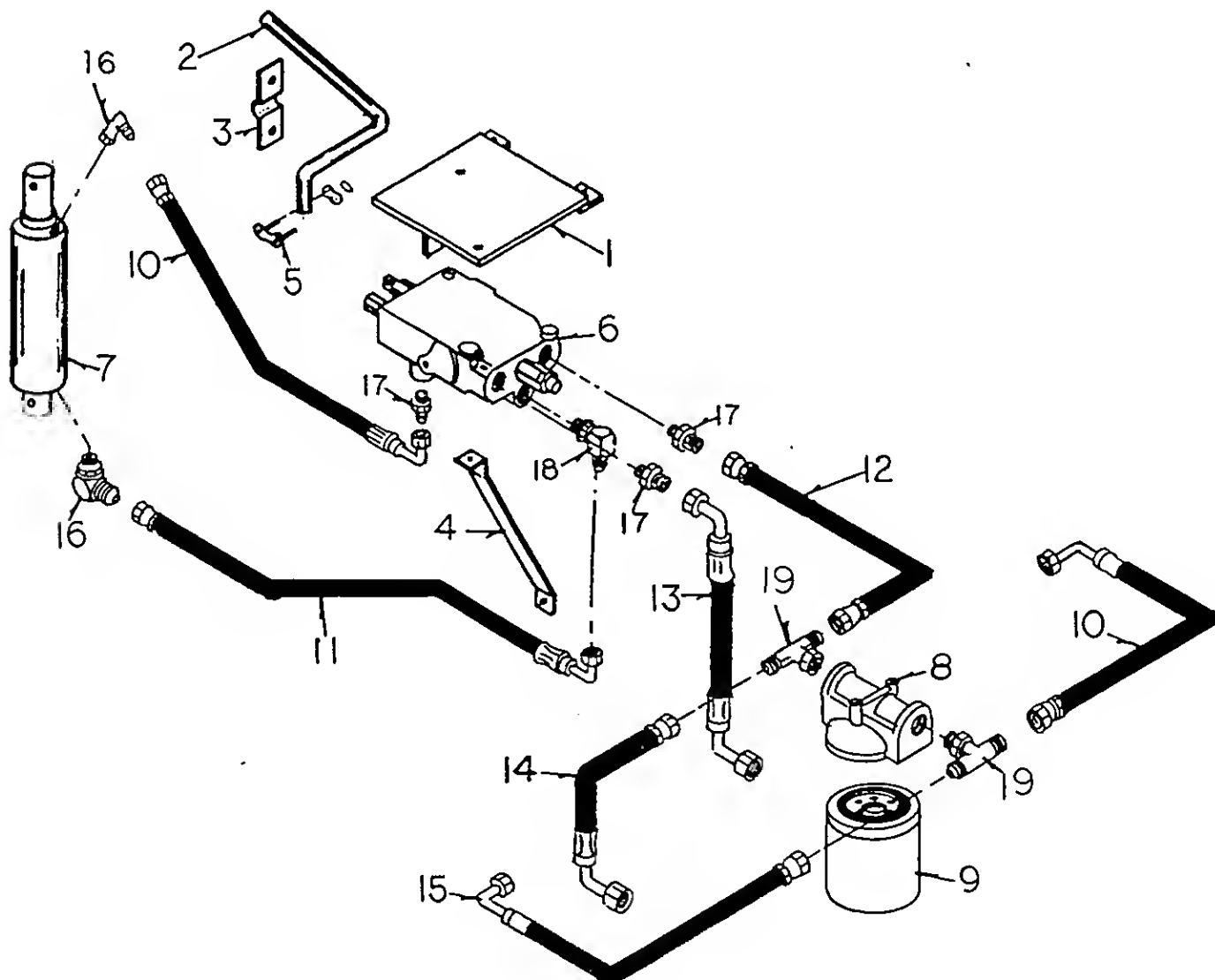
| Item | Order No. | Description                     | Qty. | Item | Order No. | Description                      | Qty. |
|------|-----------|---------------------------------|------|------|-----------|----------------------------------|------|
| 8    | 900-6027  | Elastic Stop Nut, 1/4-20        | 1    | 56   | 900-5733  | Hose Clamp, 5/8"                 | 1    |
| 10   | 900-6029  | Flatwasher, 1/4"                | 1    | 57   | 900-8073  | Filter Element                   | 1    |
| 26   | 900-6022  | Hex Bolt, 1/4-20 x 2 1/4", GR5  | 1    | 58   | 900-8072  | Filter Head, #6 Ports            | 1    |
| 29   | 900-5840  | Rubber Bushing                  | 2    | 59   | 900-8173  | Hose Assembly, 5/8" x 11"        | 1    |
| 30   | 900-8164  | Oil Cooler                      | 2    | 60   | 900-8170  | Hose Assembly, 3/8" x 13"        | 2    |
| 46   | 900-2506  | Pulley, 4" x 3/4" ID            | 3    | 61   | 900-8169  | Hose, 3/8" x 25"                 | 1    |
| 47   | 300-0021  | Key, 3/16" x 3/16" x 1"         | 3    | 62   | 900-8174  | Hose, 3/8" x 27"                 | 1    |
| 48   | 114-0012  | Oil Cooler Mount                | 1    | 63   | 900-8172  | Hose Assembly, 3/8" x 38"        | 1    |
| 49   | 900-3516  | Bearing, 2-Bolt Flanged         | 2    | 64   | 900-8171  | Hose Assembly, 3/8" x 24"        | 1    |
| 50   | 114-0006  | Cross Shaft Bearing Mount, LH   | 1    | 65   | 900-8076  | Male Tube, 90° Male O-ring Adpt. | 1    |
| 51   | 114-0007  | Cross Shaft Bearing Mount, RH   | 1    | 66   | 900-8095  | Male O-ring, Male Tube Tee       | 1    |
| 52   | 900-6502  | Ext. Spring, 1" x 7 1/4", 11 GA | 2    | 67   | 900-5657  | Hose Clamp, 3/8"                 | 4    |
| 53   | 114-0002  | Drive Cross Shaft               | 1    | 68   | 900-5829  | Grommet, 1/2" ID x 1" OD         | 4    |
| 54   | 900-8059  | Oil Tank Cap                    | 1    | 71   | 114-0008  | Cross Shaft Belt Retainer        | 1    |
| 55   | 900-8165  | Oil Tank, SA                    | 1    |      |           |                                  |      |





## HYDRAULIC LIFT ASSEMBLY

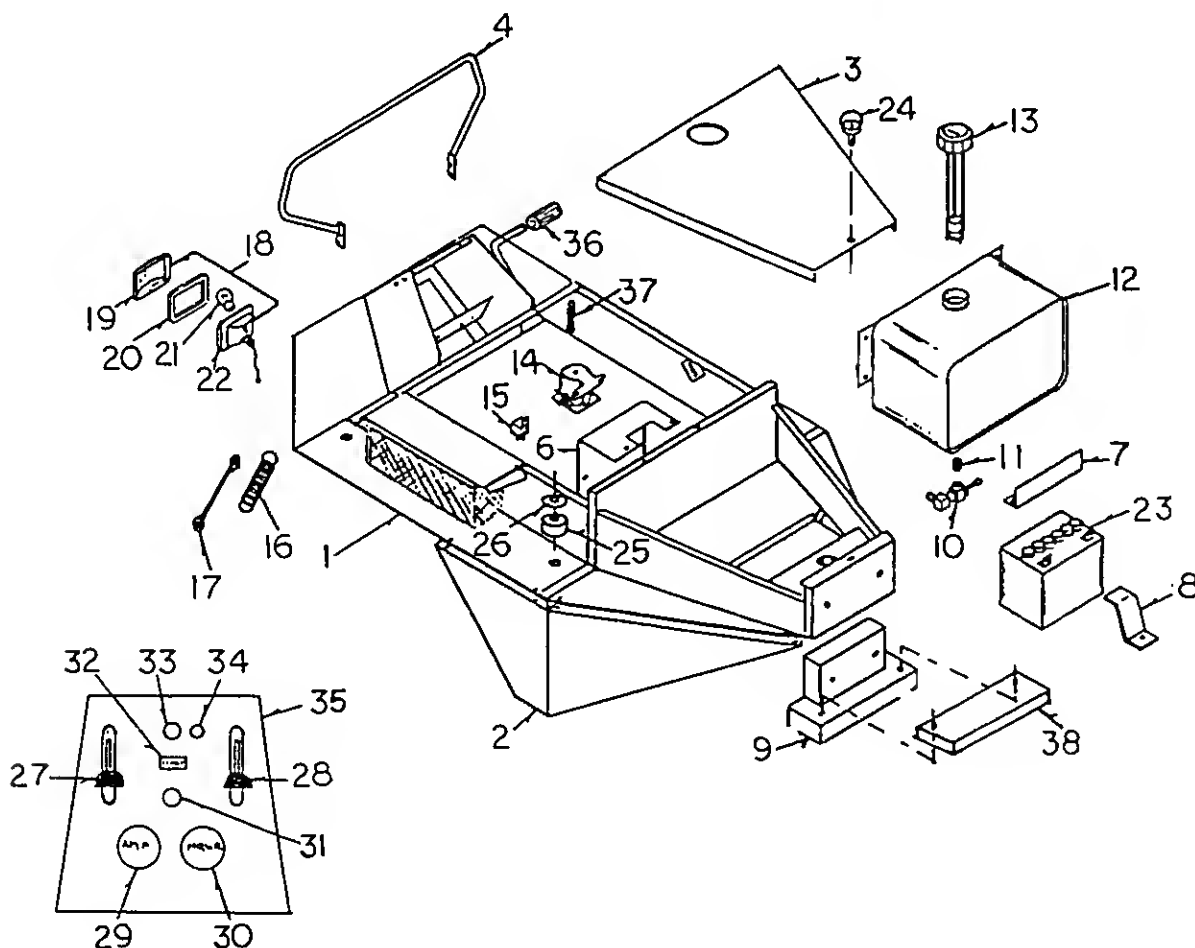
| Item | Order No. | Description              | Qty. | Item | Order No. | Description                | Qty. |
|------|-----------|--------------------------|------|------|-----------|----------------------------|------|
| 1    | 212-0002  | Valve Mount              | 1    | 12   | 900-8101  | Hose, 3/8" ID x 20" Long   | 1    |
| 2    | 212-0003  | Valve Lever              | 1    | 13   | 900-8102  | Hose, 3/8" ID x 13" Long   | 1    |
| 3    | 111-0004  | Bearing, Clutch Brake    | 1    | 14   | 900-8105  | Hose, 3/8" ID x 11.5" Long | 1    |
|      |           | Cross Rod                | 1    | 15   | 900-8104  | Hose, 3/8" ID x 21" Long   | 1    |
| 4    | 212-0005  | Valve Support            | 1    | 16   | 900-8116  | Male O-ring, 90° Male      | 2    |
| 5    | 900-1004  | Connecting Link, #50     | 1    |      |           | Tube Adp.                  |      |
| 6    | 900-8000  | Valve                    | 1    | 17   | 900-8094  | Male O-ring, Male          | 3    |
| 7    | 900-8070  | Lift Cylinder            | 1    |      |           | Tube Adp.                  |      |
| 8    | 900-8072  | Housing, Oil Filter      | 1    | 18   | 900-8097  | Male O-ring, 90° Male      | 1    |
| 9    | 900-8073  | Element, Oil Filter      | 1    |      |           | Tube Adp.                  |      |
| 10   | 900-8103  | Hose, 3/8" ID x 26" Long | 2    | 19   | 900-8095  | Male Tube, Male O-ring     | 2    |
| 11   | 900-8106  | Hose, 3/8" ID x 31" Long | 1    |      |           | Tee                        |      |



# BODY ASSEMBLY

FR-1800

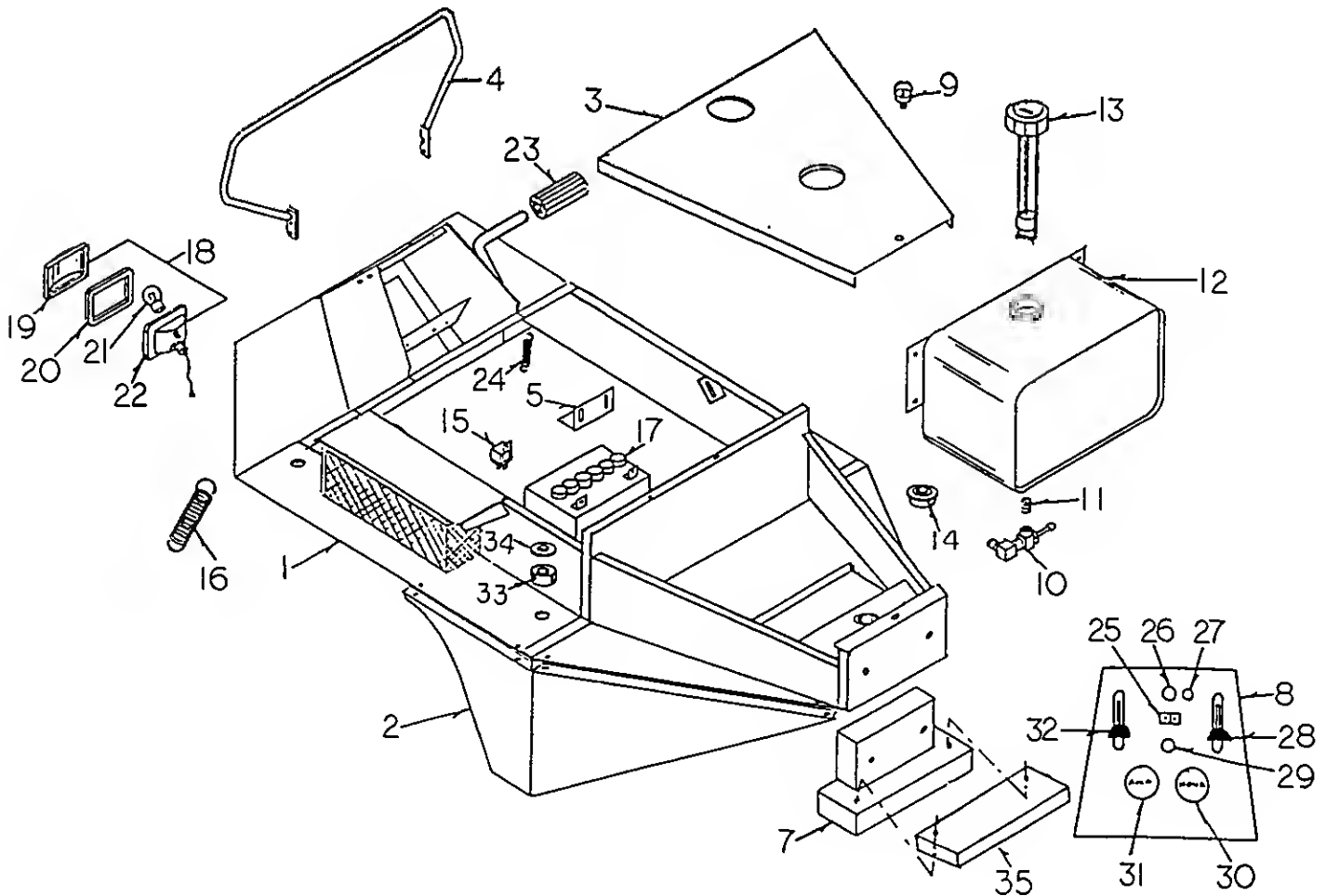
| Item | Order No. | Description            | Qty. | Item | Order No. | Description         | Qty.   |
|------|-----------|------------------------|------|------|-----------|---------------------|--------|
| 1    | 201-0000  | Body                   | 1    | 20   | 900-2068  | Gasket              | 4      |
| 2    | 201-0017  | Fender, RH             | 1    | 21   | 900-2025  | Bulb                | 2      |
|      | 201-0016  | Fender, LH (Shown)     | 1    | 22   | 900-2026  | Lamp                | 2      |
| 3    | 201-0009  | Back Cover             | 1    | 23   | 900-2060  | Battery             | 1      |
| 4    | 200-0007  | Guard Rail             | 1    | 24   | 900-5522  | Ozus Fastener       | 1      |
| 5    | 900-3501  | Bearing                | 2    | 25   | 900-5509  | Rubber Body Mount   | 8      |
| 6    | 213-0001  | Oil Tank Mount         | 1    | 26   | 200-0015  | Body Mount Washer   | 4      |
| 7    | 200-0019  | Hold Down              | 1    | 27   | 900-5508  | Choke Cable         | 1      |
| 8    | 200-0021  | Battery Post Protector | 1    | 28   | 900-5605  | Throttle Cable      | 1      |
| 9    | 230-0002  | Tail Weight            | 1    | 29   | 900-2002  | Amp Meter           | 1      |
| 10   | 900-5513  | Shutoff Valve, Fuel    | 1    | 30   | 900-2023  | Hour Meter          | 1      |
| 11   | 900-5706  | Nipple, 1/8"           | 1    | 31   | 900-2003  | Ignition Switch     | 1      |
| 12   | 900-5533  | Fuel Tank              | 1    | 32   | 900-2027  | Light Switch        | 1      |
| 13   | 900-5561  | Fuel Tank Cap w/Gauge  | 1    | 33   | 900-2028  | Clutch Switch       | 1      |
| 14   | 900-2005  | Solenoid               | 1    | 34   | 900-2041  | Oil Light           | 1      |
| 15   | 900-2037  | Relay                  | 1    | 35   | 201-0006  | Oash Board          | 1      |
| 16   | 900-5516  | Deck Spring            | 2    | 36   | 900-5563  | Brake Pedal Pad     | 1      |
| 17   | 900-5518  | Deck Lift Cable        | 2    | 37   | 900-5569  | Spring              | 1      |
| 18   | 900-2014  | Light Assembly         | 2    | 38   | 230-0010  | Tail Weight, 13 lb. | (Opt.) |
| 19   | 900-2024  | Lens                   | 2    |      |           |                     |        |



# BODY ASSEMBLY

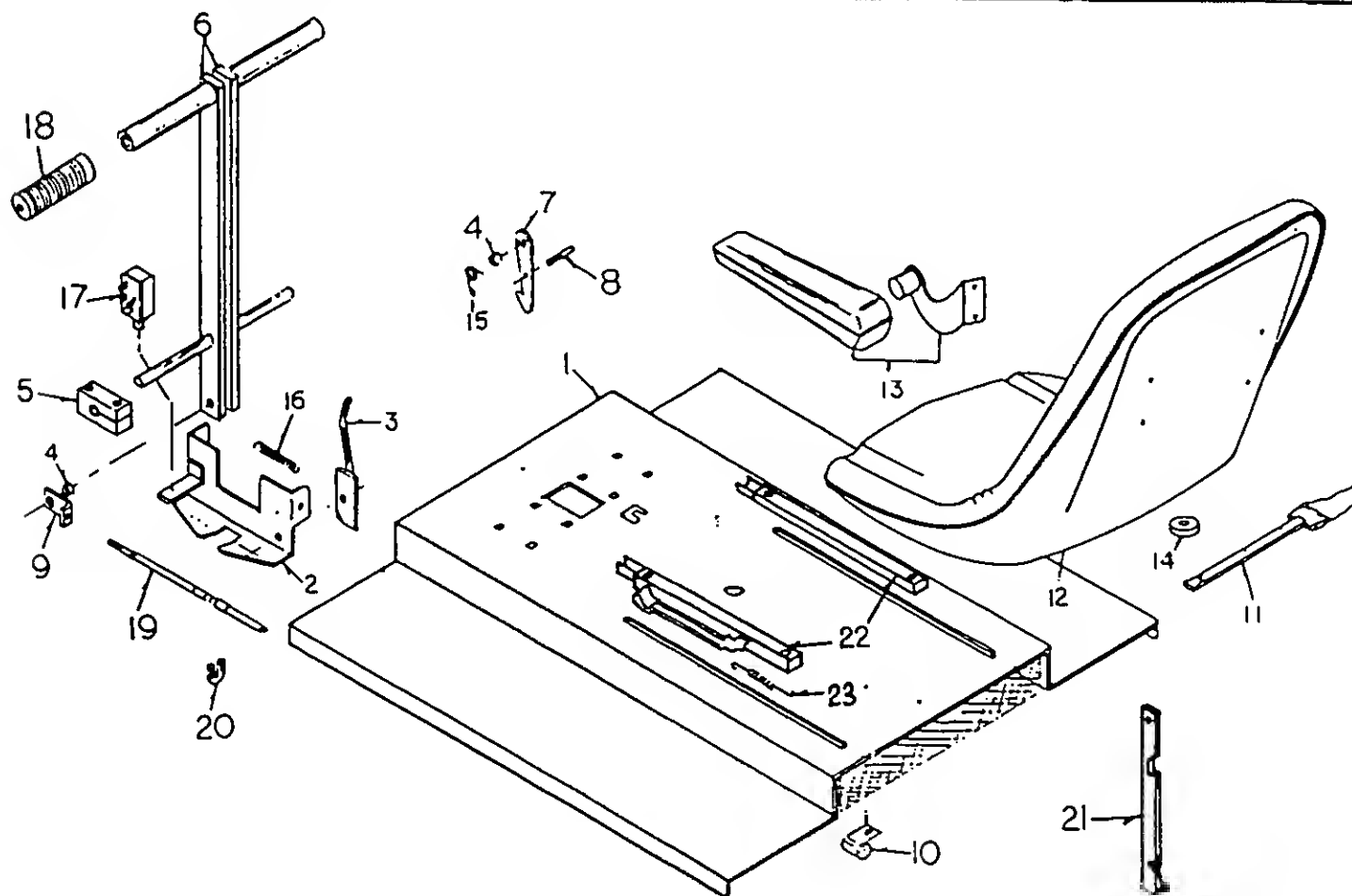
FR-2000C

| Item | Order No. | Description           | Qty. | Item | Order No. | Description         | Qty.   |
|------|-----------|-----------------------|------|------|-----------|---------------------|--------|
| 1    | 212-0000  | Body                  | 1    | 18   | 900-2014  | Light Assembly      | 2      |
| 2    | 201-0012  | Fender, LH (Shown)    | 1    | 19   | 900-2024  | Lens                | 2      |
|      | 201-0013  | Fender, RH            | 1    | 20   | 900-2068  | Gasket              | 4      |
| 3    | 212-0001  | Back Cover            | 1    | 21   | 900-2025  | Bulb                | 2      |
| 4    | 200-0007  | Guard Rail            | 1    | 22   | 900-2026  | Lamp                | 2      |
| 5    | 212-0006  | Hold Down             | 1    | 23   | 900-5563  | Brake Pedal Pad     | 1      |
| 6    | 212-0004  | Top Cylinder Mount    | 1    | 24   | 900-5569  | Spring              | 1      |
| 7    | 230-0002  | Tail Weight           | 1    | 25   | 900-2027  | Light Switch        | 1      |
| 8    | 201-0006  | Dashboard             | 1    | 26   | 900-2028  | Clutch Switch       | 1      |
| 9    | 900-5522  | Dzus Fastener         | 1    | 27   | 900-2041  | Oil Light           | 1      |
| 10   | 900-5513  | Shutoff Valve         | 1    | 28   | 900-5605  | Throttle Cable      | 1      |
| 11   | 900-5706  | Nipple, 1/8"          | 1    | 29   | 900-2003  | Ignition Switch     | 1      |
| 12   | 900-5533  | Fuel Tank             | 1    | 30   | 900-2023  | Hour Meter          | 1      |
| 13   | 900-5561  | Fuel Tank Cap w/Gauge | 1    | 31   | 900-2002  | Amp Meter           | 1      |
| 14   | 900-3501  | Bearing               | 2    | 32   | 900-5508  | Choke Cable         | 1      |
| 15   | 900-2037  | Relay                 | 3    | 33   | 900-5509  | Rubber Body Mount   | 8      |
| 16   | 900-5516  | Deck Spring           | 2    | 34   | 200-0015  | Body Mount Washer   | 4      |
| 17   | 900-2060  | Battery               | 1    | 35   | 230-0010  | Tail Weight, 13 lb. | (Opt.) |



## SEAT LID ASSEMBLY

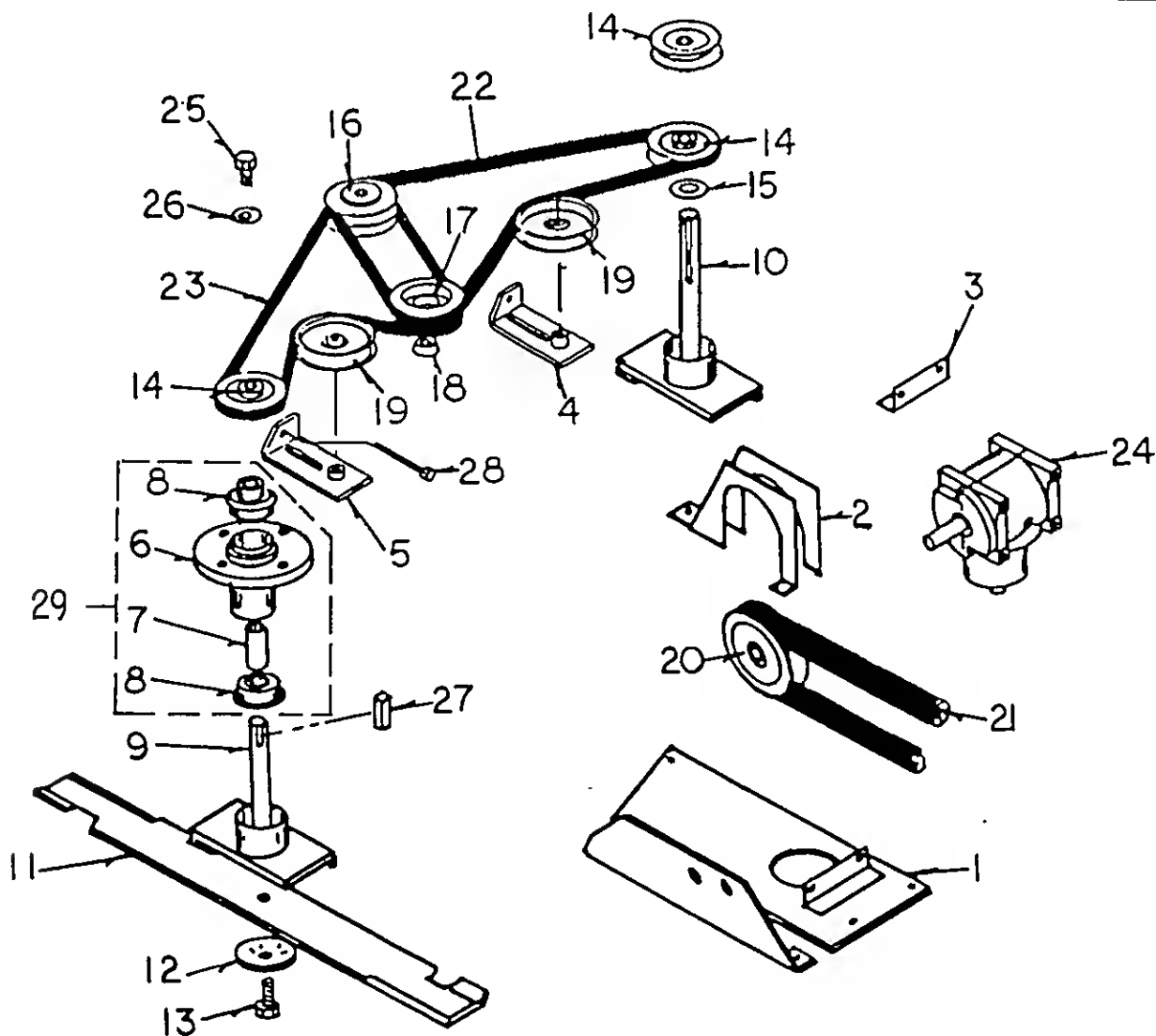
| Item | Order No. | Description               | Qty. | Item | Order No. | Description                                  | Qty. |
|------|-----------|---------------------------|------|------|-----------|--|------|
| 1    | 201-0004  | Seat Lid                  | 1    | 15   | 900-5700  | Seat Lid Latch Spring                        | 1    |
| 2    | 201-0010  | Lever Lock                | 1    | 16   | 900-5501  | Lever Lock Spring                            | 1    |
| 3    | 200-0012  | Latch, Lever Lock         | 1    | 17   | 900-2029  | Safety Switch                                | 1    |
| 4    | 200-0014  | Bushing                   | 5    | 18   | 900-5500  | Handle Grip                                  | 2    |
| 5    | 200-0010  | Bearing Block             | 4    | 19   | 900-5502  | Steering Cable (1800 Prior to 41-027-012814) | 2    |
| 6    | 200-0009  | Steering Lever            | 2    |      | 900-5819  | Steering Cable (1800 After 41-027-012814)    | 2    |
| 7    | 201-0015  | Seat Lid Latch            | 1    |      | 900-5717  | Steering Cable.(2000)                        | 2    |
| 8    | 201-0014  | Seat Lid Latch Bolt       | 1    | 20   | 900-5503  | Steering Cable Clamp (1800)                  | 4    |
| 9    | 200-0013  | Steering Cable End (1800) | 4    |      | 900-5625  | Steering Cable Clamp (2000)                  | 4    |
|      | 140-0023  | Steering Cable End (2000) | 4    | 21   | 200-0008  | Lid Prop                                     | 1    |
| 10   | 201-0018  | Seat Lid Harness Retainer | 1    | 22   | 900-5813  | Seat Rail Kit (Pair)                         | 1    |
| 11   | 900-2001  | Seat Switch               | 1    | 23   | 900-5767  | Seat Spring                                  | 1    |
| 12   | 900-5597  | Seat                      | 1    |      |           |  |      |
| 13   |           | Arm Rest Kit (Optional)   |      |      |           |  |      |
| 14   | 900-5523  | Seat Spacer               | 4    |      |           |  |      |





## 42" DECK DRIVE

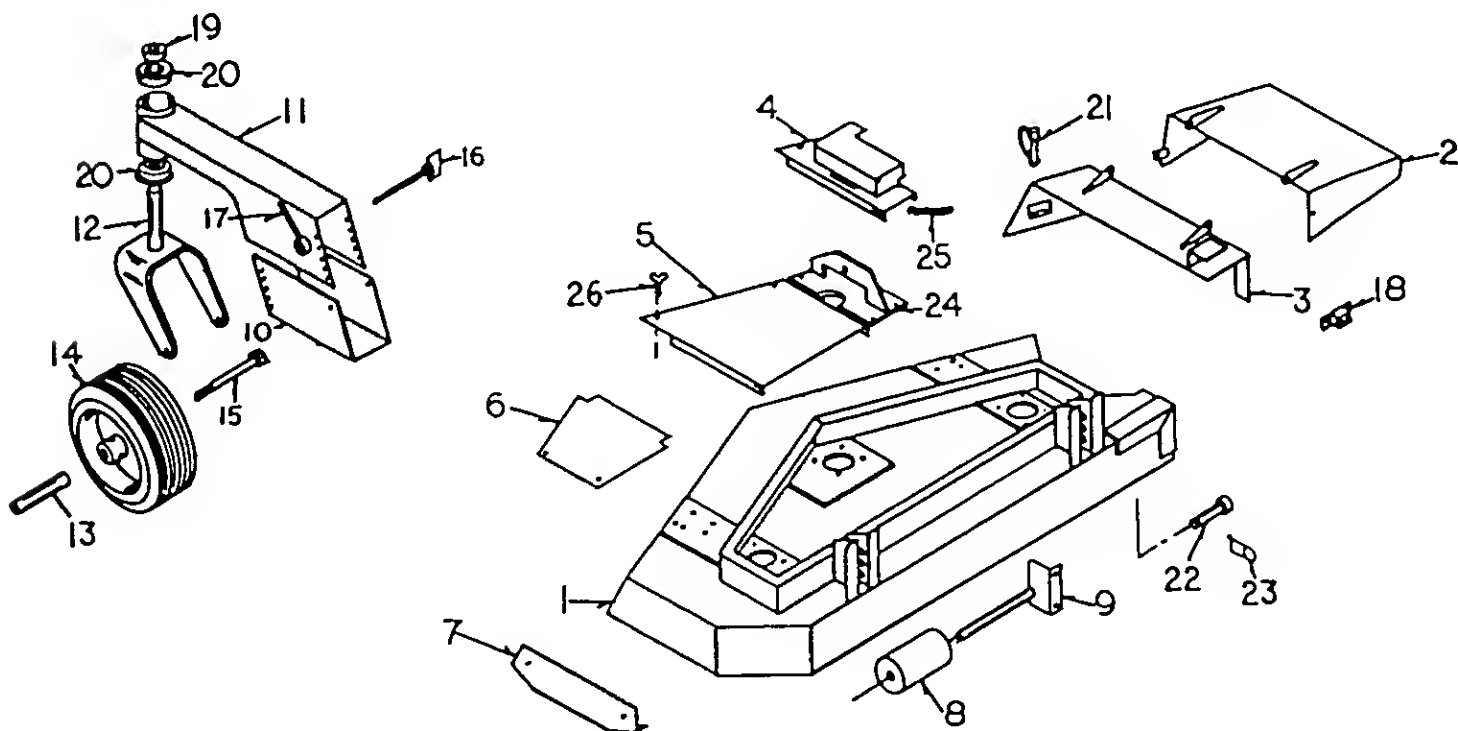
| Item | Order No. | Description               | Qty. | Item | Order No. | Description  | Qty. |
|------|-----------|---------------------------|------|------|-----------|--|------|
| 1    | 311-0001  | Gearbox Mount             | 1    | 18   |           | Hub (Included w/800-2515)                          | 1    |
| 2    | 311-0002  | Belt Guard (1800)         | 1    | 19   | 900-2518  | Idler Pulley                                       | 2    |
|      | 330-0030  | Belt Guard (2000)         | 1    | 20   | 900-2525  | Gearbox Pulley, Input (190-872-190)                | 1    |
| 3    | 310-0006  | Gearbox Mount Angle       | 1    |      | 900-2543  | Gearbox Pulley, Input (190-875-190)                | 1    |
| 4    | 300-0029  | Belt Tightener            | 1    |      |           |  |      |
| 5    | 300-0030  | Belt Tightener            | 1    | 21   | 900-3004  | Deck Drive Belt (190-872-190)                      | 1    |
| 6    | 300-0025  | Spindle Housing           | 3    |      | 900-3023  | Deck Drive Belt (190-875-190)                      | 2    |
| 7    | 300-0027  | Spindle Spacer            | 3    | 22   | 900-3006  | Deck Belt  | 1    |
| 8    | 900-3506  | Spindle Bearing           | 6    | 23   | 900-3007  | Deck Belt  | 1    |
| 9    | 300-0026  | Spindle Shaft             | 2    | 24   | 900-5842  | Gearbox  | 1    |
| 10   | 300-0033  | Spindle Shaft             | 1    | 25   | 900-6073  | Hex Ny-Lock Bolt, 5/16-24 x 3/4"                   | 3    |
| 11   | 900-5531  | Blade (190-872-190)       | 3    | 26   | 300-0017  | Washer, 5/16", 10 GA                               | 3    |
|      | 900-5530  | Blade (190-875-190)       | 3    | 27   | 300-0021  | Key Stock, 3/16"                                   | 6    |
| 12   | 900-5534  | Blade Washer              | 3    | 28   | 900-6034  | Adjustment Bolt                                    | 2    |
| 13   | 900-6080  | Hex Bolt, 3/8-24 x 1 1/4" | 3    | 29   | 600-0000  | Spindle Housing Assembly (Includes Items 6, 7 & 8) | -    |
| 14   | 900-2507  | Spindle Pulley            | 2    | 30   | 900-2528  | Spindle Pulley (190-872-190)                       | 1    |
| 15   | 900-6002  | Spacer Washer             | 9    |      | 900-2507  | Spindle Pulley (190-875-190)                       | 1    |
| 16   | 900-2516  | Spindle Pulley, Double A  | 1    |      |           |  |      |
| 17   | 900-2515  | Gearbox Pulley, Output    | 1    |      |           |  |      |



# 42" DECK PARTS

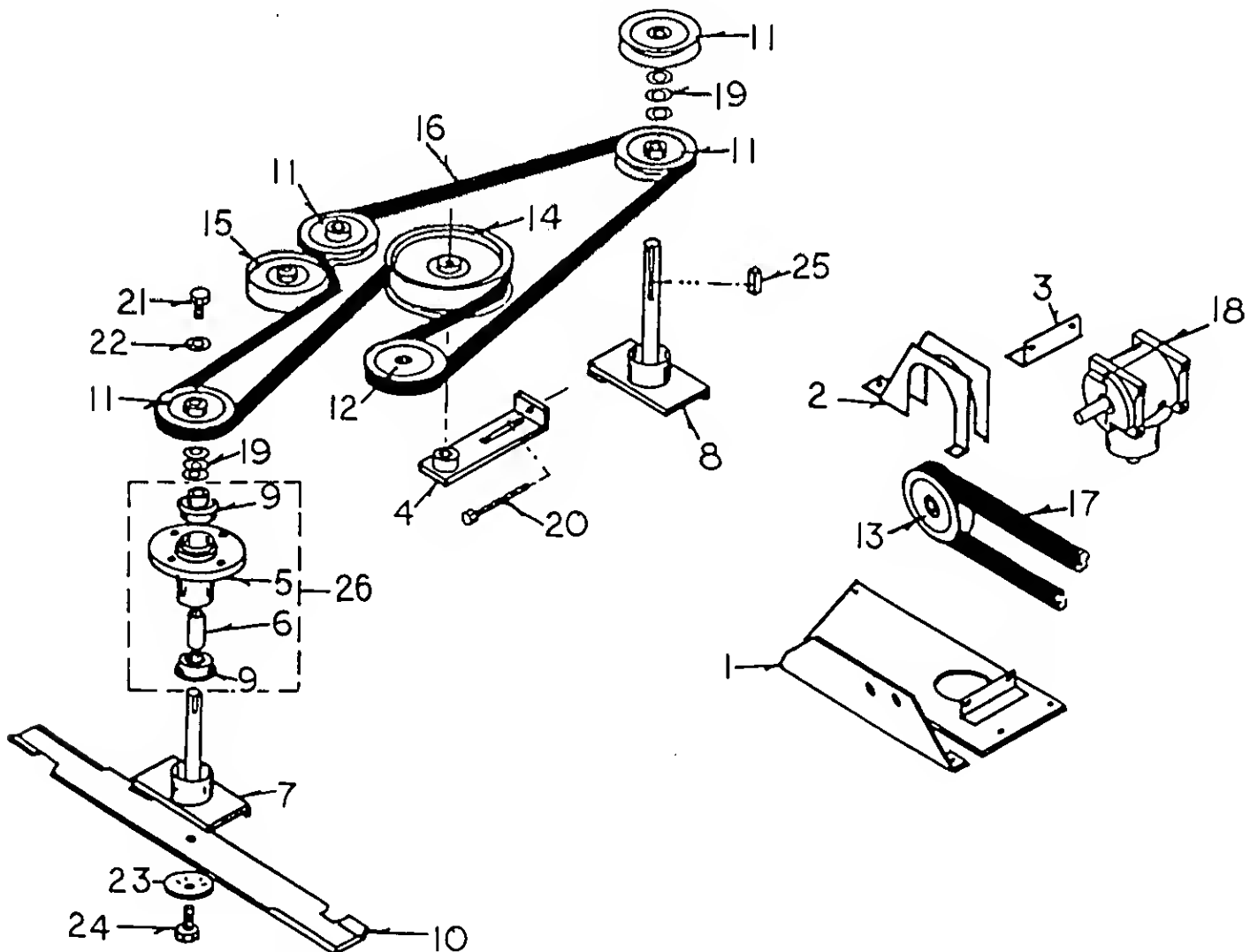
45

| Item | Order No. | Description                    | Qty. | Item | Order No. | Description                    | Qty. |
|------|-----------|--------------------------------|------|------|-----------|--------------------------------|------|
| 1    | 310-0000  | Deck, 42"                      | 1    | 14   | 900-4004  | Gauge Wheel Assembly (2000)    | 2    |
| 2    | 320-0015  | Foot Guard                     | 1    |      | 900-4006  | Tire, 11 x 4.00-5 (2000)       | -    |
| 3    | 320-0016  | Foot Guard Mount               | 1    |      | 900-4005  | Rim, 5" (2000)                 | -    |
| 4    | 310-0002  | Pulley Cover                   | 1    |      | 900-3505  | Bearing, Wheel Assembly (2000) | -    |
| 5    | 310-0003  | Center Cover                   | 1    | 15   | 900-6036  | Axle Bolt (1800)               | 1    |
| 6    | 300-0001  | Cover, LH                      | 1    |      | 900-6133  | Axle Bolt (2000)               | 1    |
| 7    | 310-0007  | Shoe, LH                       | 1    | 16   | 900-6096  | Wing Bolt                      | 4    |
| 8    | 900-5559  | Anti-scalp Roller              | 1    | 17   | 900-6092  | Handle Nut                     | 4    |
| 9    | 300-0038  | Shaft & Bracket                | 1    | 18   | 900-2044  | 10 Amp Circuit Breaker         | 1    |
| 10   | 300-0044  | Gauge Wheel Mount Bracket      | 2    | 19   | 900-5510  | Set Collar, 1"                 | 2    |
| 11   | 300-0043  | Gauge Wheel Mount              | 2    | 20   | 900-3501  | Bearing, 1"                    | 4    |
| 12   | 320-0018  | Fork (1800)                    | 2    | 21   | 900-5615  | Fas-tatch Pin                  | 1    |
|      | 330-0007  | Fork (2000)                    | 2    | 22   | 900-5519  | Deck Pin                       | 2    |
| 13   | 320-0008  | Axle (1800)                    | 2    | 23   | 900-5520  | Hair Pin Cotter                | 2    |
|      | 200-0017  | Axle (2000)                    | 2    | 24   | 310-0004  | Deck Mount                     | 1    |
| 14   | 900-4020  | Gauge Wheel Assembly (1800)    | 2    | 25   | 900-5562  | Spring                         | 1    |
|      | 900-3510  | Bearing, Wheel Assembly (1800) | -    | 26   | 900-6043  | Thumb Screw, 1/4-20 x 1/2"     | 4    |



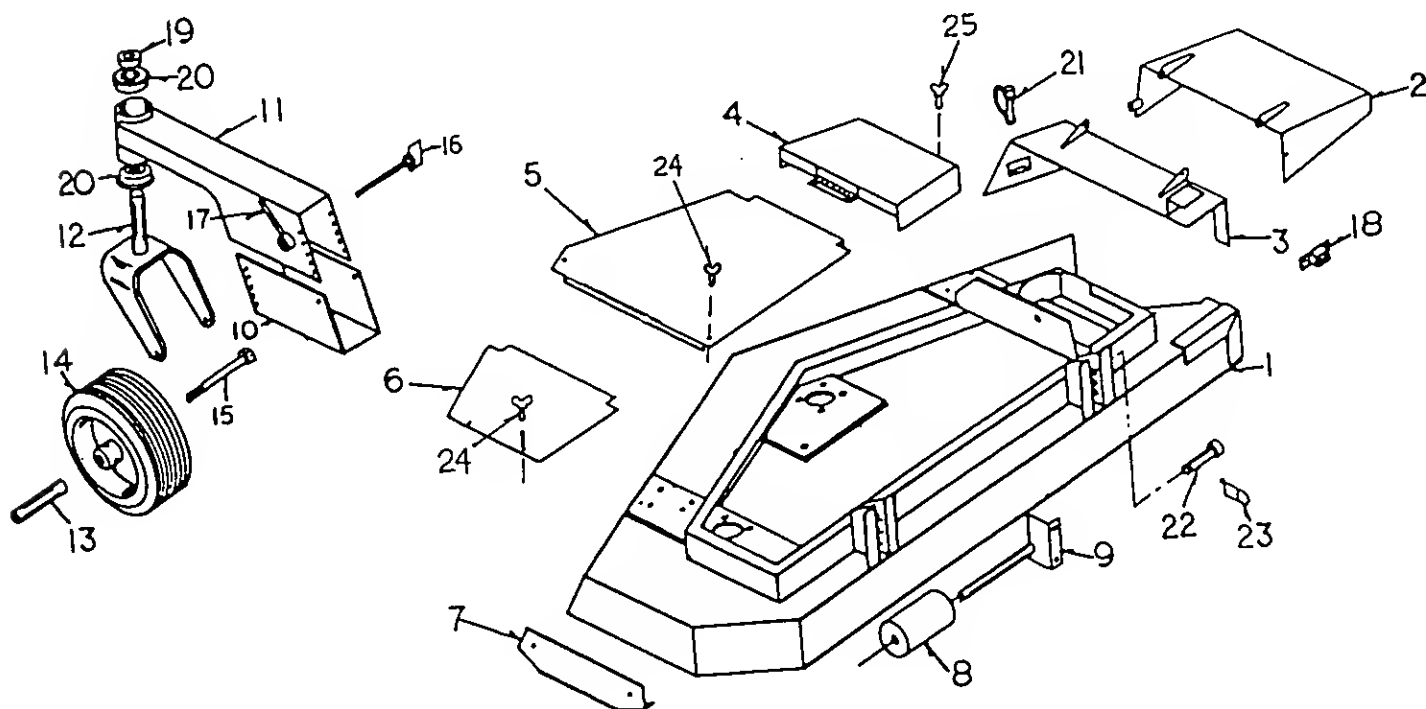
## 52" DECK DRIVE

| Item | Order No. | Description                         | Qty. | Item | Order No. | Description  | Qty. |
|------|-----------|-------------------------------------|------|------|-----------|--|------|
| 1    | 321-0001  | Gearbox Mount                       | 1    | 14   | 900-2521  | Idler Pulley, Large                                | 1    |
| 2    | 311-0002  | Belt Guard (190-873-190)            | 1    | 15   | 900-2522  | Idler Pulley, Small                                | 1    |
|      | 330-0030  | Belt Guard (190-B76-190)            | 1    | 16   | 900-3005B | Deck Belt  | 1    |
| 3    | 310-0006  | Gearbox Mount Angle                 | 1    | 17   | 900-3004  | Deck Drive Belt (190-873-190)                      | 1    |
| 4    | 330-0012  | Belt Tightener                      | 1    |      | 900-3023  | Deck Drive Belt (190-B76-190)                      | 2    |
| 5    | 300-0025  | Spindle Housing                     | 3    | 18   | 900-5B42  | Gearbox  | 1    |
| 6    | 300-0027  | Spindle Spacer                      | 3    | 19   | 900-6002  | Spacer Washer                                      | 12   |
| 7    | 300-0026  | Spindle Shaft                       | 2    | 20   | 900-6034  | Adjustment Bolt                                    | 1    |
| 8    | 300-0033  | Spindle Shaft, Long                 | 1    | 21   | 900-6073  | Hex Ny-Lock Bolt, 5/16-24 x 3/4"                   | 3    |
| 9    | 900-3506  | Spindle Bearing                     | 6    | 22   | 300-0017  | Washer, 5/16", 10 GA                               | 3    |
| 10   | 900-5814  | Blade                               | 3    | 23   | 900-5534  | Blade Washer                                       | 3    |
| 11   | 900-2511  | Spindle Pulley                      | 4    | 24   | 900-6080  | Hex Bolt, 3/8-24 x 1 1/4"                          | 3    |
| 12   | 900-2510  | Gearbox Pulley, Output              | 1    | 25   | 300-0021  | Key Stock, 3/16"                                   | 6    |
| 13   | 900-2525  | Gearbox Pulley, Input (190-873-190) | 1    | 26   | 600-0000  | Spindle Housing Assembly (Includes Items 5, 6 & 9) | -    |
|      | 900-2543  | Gearbox Pulley, Input (190-B76-190) | 1    |      |           |  |      |

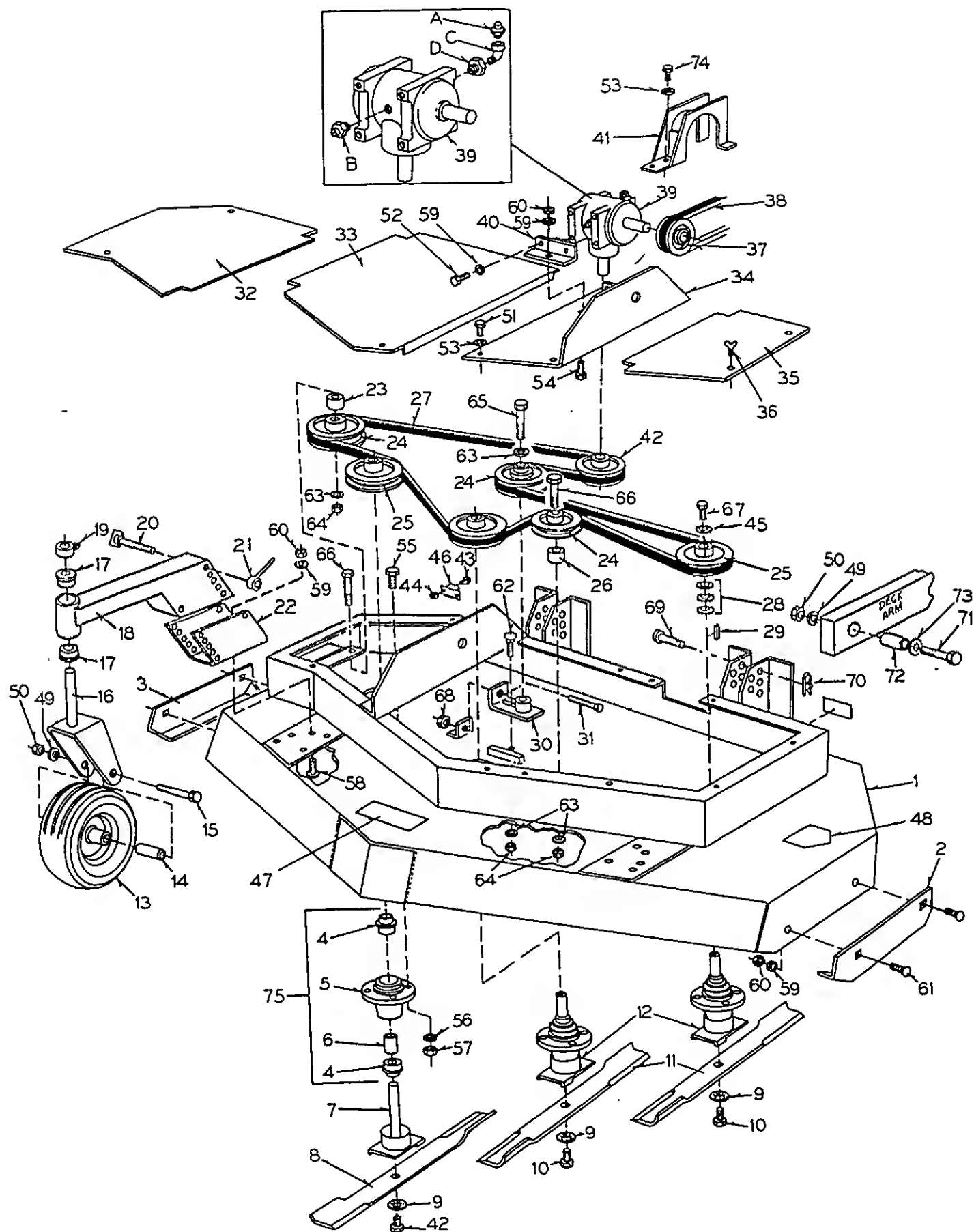




| Item | Order No. | Description               | Qty. | Item | Order No. | Description                | Qty. |
|------|-----------|---------------------------|------|------|-----------|----------------------------|------|
| 1    | 320-0000  | Deck, 52"                 | 1    |      | 900-4006  | Tire, 11 x 4.00-5          | -    |
| 2    | 320-0015  | Foot Guard                | 1    |      | 900-4005  | Rim, 5"                    | -    |
| 3    | 320-0016  | Foot Guard Mount          | 1    |      | 900-3505  | Bearing, Wheel Assembly    | -    |
| 4    | 320-0011  | Pulley Cover              | 1    | 15   | 900-6133  | Axle Bolt                  | 2    |
| 5    | 320-0002  | Center Cover              | 1    | 16   | 900-6096  | Wing Bolt                  | 4    |
| 6    | 320-0001  | Cover, LH                 | 1    | 17   | 900-6092  | Handle Nut                 | 4    |
| 7    | 320-0014  | Shoe, LH                  | 1    | 18   | 900-2044  | 10 Amp Circuit Breaker     | 1    |
| 8    | 900-5559  | Anti-scalp Roller         | 1    | 19   | 900-5510  | Set Collar, 1"             | 2    |
| 9    | 300-0038  | Shaft & Bracket           | 1    | 20   | 900-3501  | Bearing, 1"                | 4    |
| 10   | 300-0044  | Gauge Wheel Mount Bracket | 2    | 21   | 900-5615  | Fas-tatch Pin              | 1    |
| 11   | 300-0043  | Gauge Wheel Mount         | 2    | 22   | 900-5519  | Deck Pin                   | 2    |
| 12   | 330-0007  | Fork                      | 2    | 23   | 900-5520  | Hair Pin Cotter            | 2    |
| 13   | 200-0017  | Axle                      | 2    | 24   | 900-6043  | Thumb Screw, 1/4-20 x 1/2" | 4    |
| 14   | 900-4004  | Gauge Wheel Assembly      | 2    | 25   | 900-6020  | Wing Screw, 1/4-20 x 1"    | 1    |



## 52" REAR DISCHARGE DECK



## 52" REAR DISCHARGE DECK PARTS

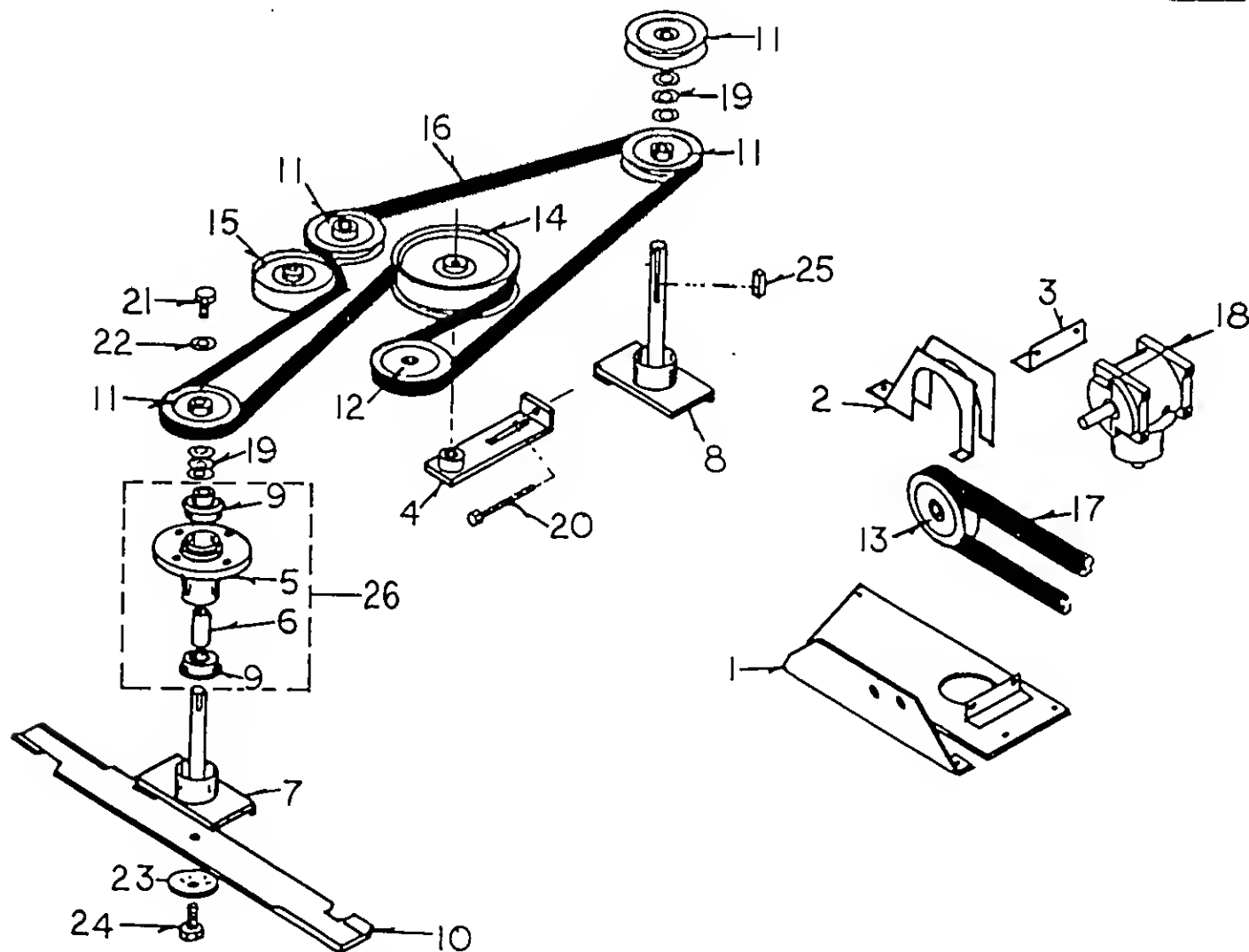
| Item | Part No. | Description                         | Qty. |
|------|----------|-------------------------------------|------|
| 1    | 321-0000 | Rear Discharge Deck, 52"            | 1    |
| 2    | 320-0014 | Shoe, LH                            | 1    |
| 3    | 321-0003 | Shoe, RH                            | 1    |
| 4    | 900-3506 | Spindle Bearing, 7/8" (ER-14)       | 6    |
| 5    | 300-0025 | Spindle Housing                     | 3    |
| 6    | 300-0027 | Spindle Spacer                      | 3    |
| 7    | 321-0004 | Spindle Shaft, LH Rotation          | 1    |
| 8    | 900-5914 | Blade, LH Rotation (5814LH)         | 1    |
| 9    | 900-5534 | Blade Washer                        | 3    |
| 10   | 900-6080 | Hex Bolt, 3/8-24 x 1 1/4", GR5      | 2    |
| 11   | 900-5814 | Blade, RH Rotation                  | 2    |
| 12   | 300-0026 | Spindle Shaft, 7/8"                 | 2    |
| 13   | 900-4004 | Gauge Wheel Assembly                | 2    |
|      | 900-4006 | Tire, 11 x 4.00-5                   | -    |
|      | 900-4005 | Rim, 5"                             | -    |
|      | 900-3505 | Wheel Assembly Bearing (ASF0108-6)  | -    |
| 14   | 200-0017 | Axle                                | 2    |
| 15   | 900-6133 | Hex Bolt, 1/2-13 x 6 1/2", GR2      | 2    |
| 16   | 330-0007 | Gauge Wheel Fork                    | 2    |
| 17   | 900-3501 | Drive Wheel Bearing, 1" (64F64PP)   | 4    |
| 18   | 300-0043 | Gauge Wheel Mount                   | 2    |
| 19   | 900-5510 | Set Collar, 1"                      | 2    |
| 20   | 900-6096 | Wing Bolt, 3/8-16 x 4 1/2"          | 4    |
| 21   | 900-6092 | Handle Nut, 3/8-16                  | 4    |
| 22   | 300-0044 | Gauge Wheel Mount Bracket           | 2    |
| 23   | 321-0005 | Idler Pulley Spacer                 | 1    |
| 24   | 900-2558 | Idler Pulley, 3/8" ID x 5" OD       | 3    |
| 25   | 900-2557 | Spindle Pulley, 7/8" ID x 4 1/2" OD | 3    |
| 26   | 300-0016 | Idler Pulley Spacer                 | 1    |
| 27   | 900-3028 | Deck Belt, BB129                    | 1    |
| 28   | 900-6002 | Spacer Washer                       | 9    |
| 29   | 300-0021 | Key, 3/16" x 3/16" x 1"             | 5    |
| 30   | 300-0015 | Belt Tightener                      | 1    |
| 31   | 900-6034 | Hex Tap Bolt, 1/4-20 x 4"           | 1    |
| 32   | 321-0002 | Cover, RH                           | 1    |
| 33   | 320-0002 | Cover, Center                       | 1    |
| 34   | 321-0001 | Gearbox Mount                       | 1    |
| 35   | 320-0001 | Cover, LH                           | 1    |
| 36   | 900-6043 | Thumb Screw, 1/4-20 x 1/2"          | 6    |
| 37   | 900-2525 | Gearbox Pulley, 3/4" ID x 4 1/2" OD | 1    |
| 38   | 900-3004 | Deck Drive Belt, B52                | 1    |

| Item | Part No. | Description  | Qty. |
|------|----------|--|------|
| 39   | 900-5842 | Gearbox Assembly - Consisting Of:                  | 1    |
| A    |          | 1 - 900-7004 Relief Valve                          |      |
| B    |          | 1 - 900-7053 Grease Zerk, 1/4" NPT                 |      |
| C    |          | 1 - 900-5020 Street Elbow, 1/8" x 90°              |      |
| D    |          | 1 - * Pipe Bushing, 1/4" x 1/8"                    |      |
| 40   | 310-0006 | Gearbox Mount Angle                                | 1    |
| 41   | 311-0002 | Belt Guard   | 1    |
| 42   | 900-6106 | Hex Bolt, 3/8-24 x 1 1/4", GR5, LH                 | 1    |
| 43   | *        | Panhead Machine Screw, No. 10-32 x 1/2"            | 2    |
| 44   | 900-6150 | Integral Star Washer Nut, No. 10-32                | 2    |
| 45   | 300-0017 | Spindle Washer                                     | 3    |
| 46   | 900-2044 | 10 Amp Circuit Breaker                             | 1    |
| 47   | 900-5542 | Decal, Caution - Whirling Blade                    | 1    |
| 48   | 900-5549 | Decal, Danger                                      | 1    |
| 49   | *        | Lockwasher, 1/2"                                   | 4    |
| 50   | *        | Hex Nut, 1/2-13                                    | 4    |
| 51   | *        | Hex Capscrew, 1/4-20 x 3/4", GR5                   | 5    |
| 52   | *        | Hex Capscrew, 5/16-18 x 1", GR5                    | 4    |
| 53   | *        | Lockwasher, 1/4"                                   | 7    |
| 54   | *        | Hex Capscrew, 5/16-18 x 3/4", GR5                  | 1    |
| 55   | *        | Hex Capscrew, 7/16-14 x 1 1/4", GR5                | 12   |
| 56   | *        | Lockwasher, 7/16"                                  | 12   |
| 57   | *        | Hex Nut, 7/16-14                                   | 12   |
| 58   | *        | Carriage Bolt, 5/16-18 x 1", GR5                   | 6    |
| 59   | *        | Lockwasher, 5/16"                                  | 10   |
| 60   | *        | Hex Nut, 5/16"                                     | 10   |
| 61   | *        | Carriage Bolt, 5/16-18 x 3/4"                      | 4    |
| 62   | *        | Carriage Bolt, 3/8-16 x 1"                         | 1    |
| 63   | *        | Lockwasher, 3/8"                                   | 4    |
| 64   | *        | Hex Nut, 3/8-16                                    | 3    |
| 65   | *        | Hex Capscrew, 3/8-16 x 1 1/4", GR5                 | 1    |
| 66   | *        | Hex Capscrew, 3/8-16 x 2 1/2", GR5                 | 2    |
| 67   | 900-6053 | Hex Capscrew, 5/16-24 x 3/4", GR5                  | 3    |
| 68   | *        | Elastic Stop Nut, 1/4-20                           | 1    |
| 69   | 900-5519 | Clevis Pin, 1/2" x 1 1/2"                          | 2    |
| 70   | 900-5520 | Hairpin Cotter, .120 x 2 1/4"                      | 2    |
| 71   | *        | Hex Capscrew, 1/2-13 x 1 1/2", GR5                 | 2    |
| 72   | 300-0013 | Deck Lift Arm Bushing                              | 2    |
| 73   | *        | Flatwasher, 1/2"                                   | 2    |
| 74   | *        | Hex Capscrew, 1/4-20 x 1/2", GR5                   | 2    |
| 75   | 600-0000 | Spindle Housing Assembly (Includes Items 4, 5 & 6) | 3    |

\*Standard Hardware Parts, Order Locally

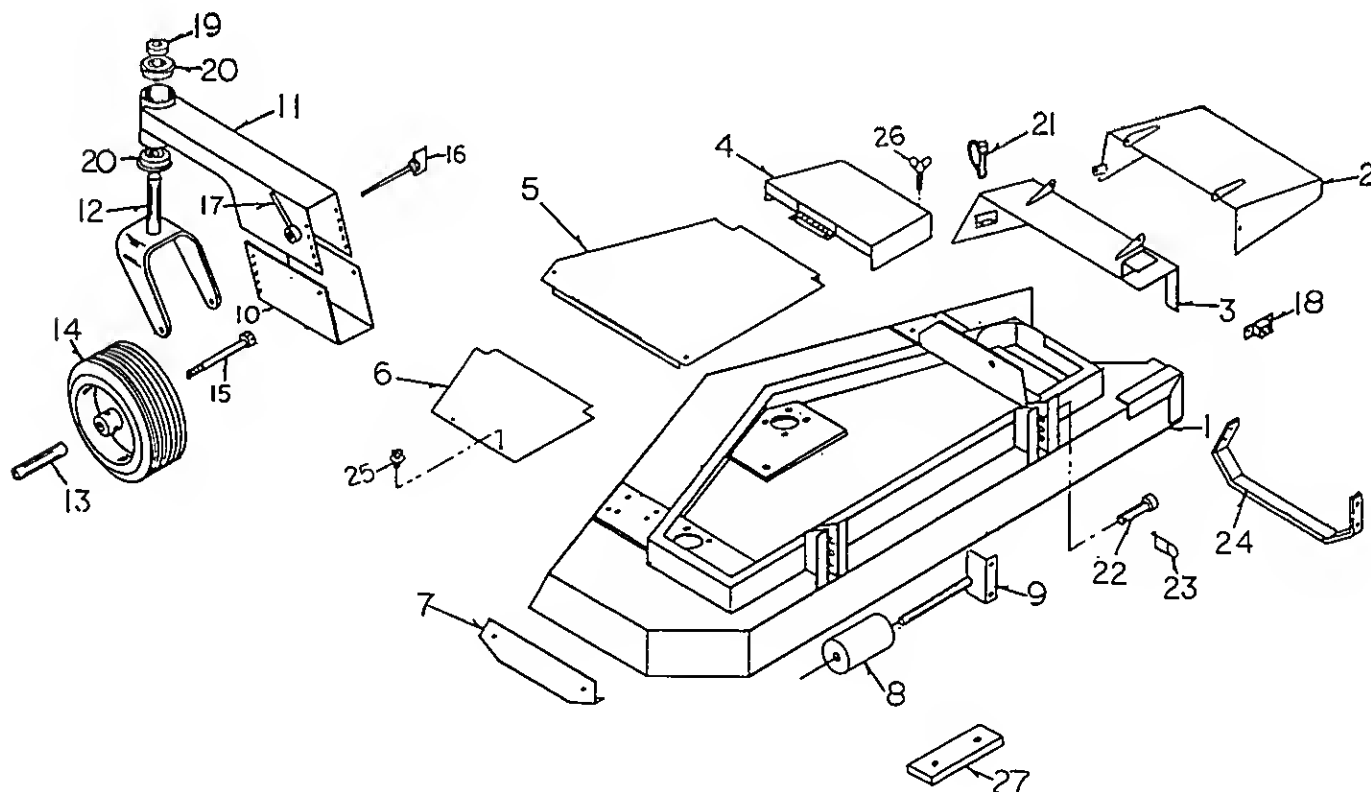
## 62" DECK DRIVE

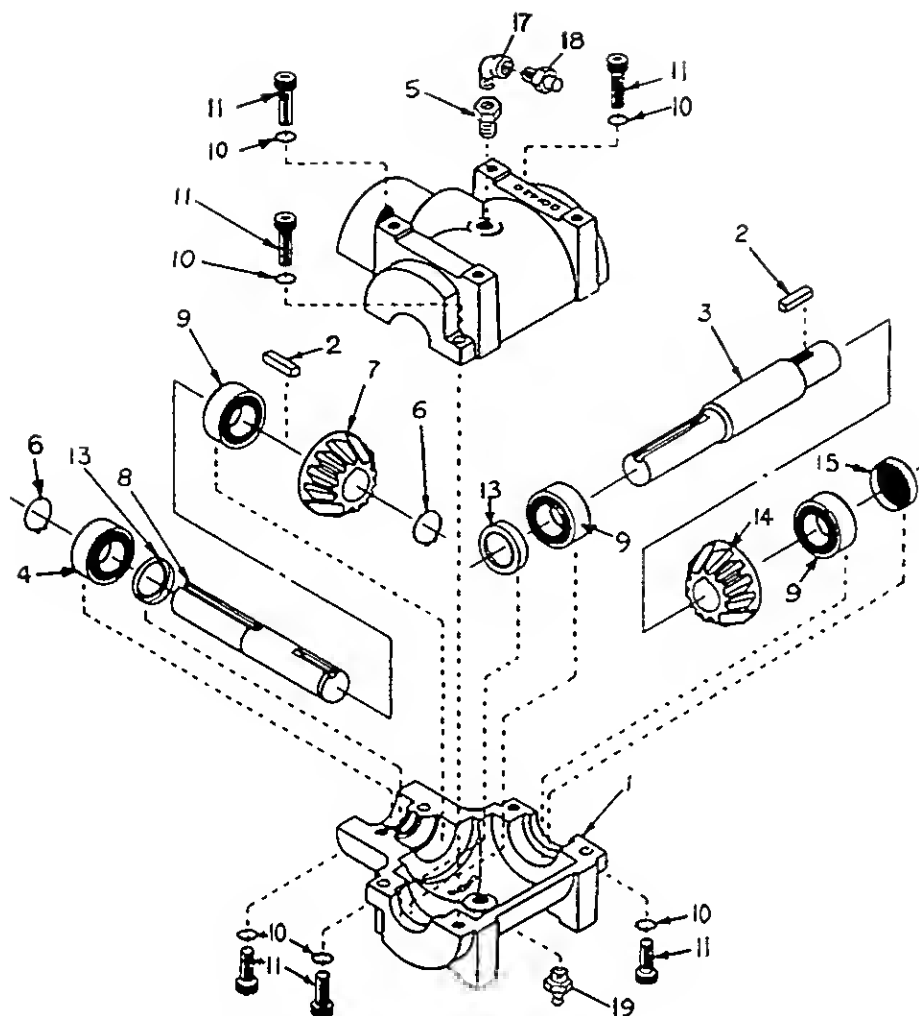
| Item | Order No. | Description                         | Qty. | Item | Order No. | Description  | Qty. |
|------|-----------|-------------------------------------|------|------|-----------|--|------|
| 1    | 331-0004  | Gearbox Mount                       | 1    | 14   | 900-2521  | Idler Pulley, Large                                | 1    |
| 2    | 311-0002  | Belt Guard (190-874-190)            | 1    | 15   | 900-2522  | Idler Pulley, Small                                | 1    |
|      | 330-0030  | Belt Guard (190-877-190)            | 1    | 16   | 900-3008B | Deck Belt  | 1    |
| 3    | 310-0006  | Gearbox Mount Angle                 | 1    | 17   | 900-3004  | Deck Drive Belt (190-874-190)                      | 1    |
| 4    | 330-0012  | Belt Tightener                      | 1    |      | 900-3023  | Deck Drive Belt (190-877-190)                      | 2    |
| 5    | 300-0031  | Spindle Housing                     | 3    | 18   | 900-5842  | Gearbox  | 1    |
| 6    | 300-0034  | Spindle Spacer                      | 3    | 19   | 900-6002  | Spacer Washer                                      | 12   |
| 7    | 300-0032  | Spindle Shaft                       | 2    | 20   | 900-6034  | Adjustment Bolt                                    | 1    |
| 8    | 300-0040  | Spindle Shaft, Long                 | 1    | 21   | 900-6073  | Hex Ny-Lock Bolt, 5/16-24 x 3/4"                   | 3    |
| 9    | 900-3506  | Spindle Bearing                     | 6    | 22   | 300-0017  | Washer, 5/16", 10 GA                               | 3    |
| 10   | 900-5730  | Blade                               | 3    | 23   | 900-5534  | Blade Washer                                       | 3    |
| 11   | 900-2512  | Spindle Pulley                      | 4    | 24   | 900-6080  | Hex Bolt, 3/8-24 x 1 1/4"                          | 3    |
| 12   | 900-2510  | Gearbox Pulley, Output              | 1    | 25   | 300-0021  | Key Stock, 3/16"                                   | 6    |
| 13   | 900-2525  | Gearbox Pulley, Input (190-874-190) | 1    | 26   | 600-0001  | Spindle Housing Assembly (Includes Items 5, 6 & 9) | -    |
| -    | 900-2543  | Gearbox Pulley, Input (190-877-190) | 1    |      |           |  |      |



## 62" DECK PARTS

| Item | Order No. | Description               | Qty. | Item | Order No. | Description                | Qty. |
|------|-----------|---------------------------|------|------|-----------|----------------------------|------|
| 1    | 330-0000  | Deck, 62"                 | 1    |      | 900-4005  | Rim, 5"                    | -    |
| 2    | 330-0027  | Foot Guard                | 1    |      | 900-3505  | Bearing, Wheel Assembly    | -    |
| 3    | 330-0028  | Foot Guard Mount          | 1    | 15   | 900-6133  | Axle Bolt                  | 2    |
| 4    | 330-0025  | Pulley Cover              | 1    | 16   | 900-6096  | Wing Bolt                  | 4    |
| 5    | 330-0002  | Center Cover              | 1    | 17   | 900-6092  | Handle Nut                 | 4    |
| 6    | 330-0001  | Cover, LH                 | 1    | 18   | 900-2044  | 10 Amp Circuit Breaker     | 1    |
| 7    | 330-0008  | Shoe, LH                  | 1    | 19   | 900-5510  | Set Collar, 1"             | 2    |
| 8    | 900-5559  | Anti-scalp Roller         | 1    | 20   | 900-3501  | Bearing, 1"                | 4    |
| 9    | 300-0038  | Shaft & Bracket           | 1    | 21   | 900-5615  | Fas-tatch Pin              | 1    |
| 10   | 300-0044  | Gauge Wheel Mount Bracket | 2    | 22   | 900-5519  | Deck Pin                   | 2    |
| 11   | 300-0043  | Gauge Wheel Mount         | 2    | 23   | 900-5520  | Hair Pin Cotter            | 2    |
| 12   | 330-0007  | Fork                      | 2    | 24   | 330-0011  | Shoe, RH                   | 1    |
| 13   | 200-0017  | Axle                      | 2    | 25   | 900-6043  | Thumb Screw, 1/4-20 x 1/2" | 4    |
| 14   | 900-4004  | Gauge Wheel Assembly      | 2    | 26   | 900-6020  | Wing Screw, 1/4-20 x 1"    | 1    |
|      | 900-4006  | Tire, 11 x 4.00-5         | -    | 27   | 230-0010  | Tail Weight, 13 Lb.        | 3    |





## CURTIS GEARBOX PARTS LIST

Part No. 900-5842  
(Curtis No. 920983)

| Item | Order No. | Description               | Qty. |
|------|-----------|---------------------------|------|
| 1    | 900-7036  | Housing Half              | 2    |
| 2    | 900-7001  | Key, 3/16" x 3/16" x 1"   | 2    |
| 3    | 900-7037  | Shaft                     | 1    |
| 4    | 900-7008  | Ball Bearing              | 1    |
| 5    | 15001     | Pipe Bushing, 1/4" x 1/8" | 1    |
| 6    | 900-7005  | Retaining Ring            | 2    |
| 7    | 900-7038  | Output Shaft Gear         | 1    |
| 8    | 900-7044  | Shaft                     | 1    |
| 9    | 900-7041  | Ball Bearing              | 3    |
| 10   | 900-7009  | Lockwasher                | 6    |
| 11   | 900-7010  | Allenhead Capscrew        | 6    |
| 13   | 900-7042  | Seal                      | 2    |
| 14   | 900-7040  | Input Shaft Gear          | 1    |
| 15   | 900-7043  | Expansion Plug            | 1    |
| 16   | 900-5535  | Gearbox                   | 1    |
| 17   | 900-5020  | Street Elbow, 1/8" x 90°  | 1    |
| 18   | 900-7004  | Relief Valve              | 1    |
| 19   | 900-7053  | Grease Zerk, 1/4" NPT     | 1    |
|      | 999-2010  | Grease, SHC-460           | 1    |

A scientifically formulated tire protection system for use in tires with 4 inch thru 12 inch rims.

# Pneuma Seal

## LIFETIME LIMITED FLAT TIRE WARRANTY



### COVERAGE: Replacement Policy:

PneumaSeal is a premium tire maintenance product which, when installed in your new tubeless tires, provides protection against rim and bead leaks, tire porosity and punctures made by penetrating objects up to 1/4 inch diameter.

This life-of-the-tire (at least 2/32 inch of remaining tread) warranty assures you that, in the unlikely event your tubeless tire goes flat, the tire will be repaired or replaced (at dealer's discretion) free of charge. Read the whole warranty for all details.

### Policy Limitations:

You must be the original purchaser and have had PneumaSeal injected in your new tire or tires by an authorized PneumaSeal Dealer or Manufacturing Plant.

### Service Agreement:

WHITE OUTDOOR PRODUCTS COMPANY will reimburse the cost of flat repairing during the legal life of the tire (at least 2/32 inch of remaining tread), subject to the limitations stated below. WHITE OUTDOOR PRODUCTS COMPANY will reimburse the tire dealer for cost of repair.

### Owner Obligations:

If your authorized dealer-branded PneumaSeal tubeless tire goes flat, you are eligible for the benefits stated above upon presentation of this limited warranty.

KEEP THIS WARRANTY REGISTRATION CARD THAT YOU RECEIVED WITH THIS WARRANTY. YOU WILL NEED THE CARD TO OBTAIN WARRANTY COVERAGE AND PERFORMANCE AS DESCRIBED ABOVE.

For any tire leak you cannot cure according to the procedures described on the warranty registration card, take the tire to your dealer along with the warranty registration card. Your tire will be fixed or replaced as described above. If your tire is removed by the dealer, or a new tire is installed, PneumaSeal will be injected in your tire and your warranty renewed.

### This warranty does not cover:

Carcass splits or sidewall cuts or tread penetration created by objects larger than 1/4 inch diameter. Cost of towing. Willful or malicious damage or vandalism. Loss or damage due to accidents, collisions, fire, misuse, negligence or alteration. Loss of time, inconvenience, loss of vehicle use or any other incidental or consequential damage.

The replacement policy described above is the Buyer's sole remedy hereunder.

THERE ARE NO EXPRESS WARRANTIES WHICH EXTEND BEYOND THE DESCRIBED.

THE FACE HEREOF, NO REPRESENTATIVE OR DEALER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION, PROMISE OR AGREEMENT ON BEHALF OF WHITE OUTDOOR PRODUCTS COMPANY. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE OR FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THE LIMITED EXPRESSED WARRANTY DESCRIBED ABOVE.

### LIMITATION OF DAMAGES:

WHITE OUTDOOR PRODUCTS COMPANY IS NOT LIABLE FOR INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE USE OF THE PNEUMASEAL PRODUCT, INCLUDING ANY LOSS OF TIME, INCONVENIENCE, LOSS OF VEHICLE USE, OR ANY COST OR EXPENSE OF SUBSTITUTE VEHICLES DURING PERIODS OF MALFUNCTION OR NON-USE.

NOTE: Some states do not allow limitations on how long an implied warranty lasts or limitations or exclusions of incidental or consequential damages, so the limitations or exclusions in the two preceding paragraphs may not apply to you.

### Legal Rights:

This limited warranty gives you specific legal rights and you may also have other rights which vary from State to State.

This limited warranty is applicable only in the United States of America.

**WHITE OUTDOOR PRODUCTS CO.**  
BOX 361131  
CLEVELAND, OHIO 44136

# WHITE



## OUTDOOR POWER PRODUCTS

P.O. Box 361131 • Cleveland, Ohio • 44136  
97 Kent Avenue • Kitchener, Ontario • N2G 4J1



